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## UTILITY PATENT APPLICATION TRANSMITTAL

Address to: <b>Box PATENT APPLICATION</b> <b>Commissioner for Patents</b> <b>United States Patent &amp; Trademark Office</b> <b>Washington, DC 20231</b>	Attorney Docket No.	RPC 0507 PUS
	Inventor(s) or Application Identifier: Houston Rehrig	

09/26/00

1. This application entitled PORTABLE URINAL is:
- a. x A new application under 37 C.F.R. §1.53(b).
- b.      A      continuation      divisional or      continuation-in-part application under 37 C.F.R. § 1.53(b) of prior application Serial No.      /      filed on      ,  
entitled      ,

Application elements and other attached papers:

2.   x   Specification (incl. Claims and Abstract) [Total Pages   19  ]
3.   x   Drawings (  x   informal        formal) [Total Sheets   28  ]
4.   x   Oath or Declaration
- a.   x   Newly-executed
- b.        Copy from a prior application (37 C.F.R. § 1.63(d))
5.        Incorporation By Reference: The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied under Item 4b, is considered as being part of the disclosure of the accompanying application and is hereby incorporated by reference therein.
6.        This application is filed by fewer than all the inventors named in the prior application, 37 C.F.R. § 1.53(d)(4).
- a.        **DELETE** the following inventor(s) named in the prior nonprovisional application:
- \_\_\_\_\_  
        \_\_\_\_\_
- b.        The inventor(s) to be deleted are set forth on a separate sheet attached hereto.

**CERTIFICATION UNDER 37 C.F.R. § 1.10**

I hereby certify that this UTILITY PATENT APPLICATION TRANSMITTAL and the documents referred to as attached therein are being deposited on the below date with the United States Postal Service in an envelope as "Express Mail Post Office to Addressee" addressed to: Box Patent Application, Commissioner for Patents, United States Patent and Trademark Office, Washington, D.C. 20231.

Express  
Mail Label No. EL 481 736 403 US

Angelika Phillips  
(Type or print name of person mailing paper)

Date of Deposit: September 26, 2000

Angeline Phillips  
(Signature of person mailing paper)

## 7. Preliminary Amendment:

- a. ☐ A Preliminary Amendment is attached.
- b. ☐ Cancel in this application original claims \_\_\_\_\_ of the prior application before calculating the filing fee.
- c. ☐ Please amend the specification by inserting before the first line the sentence:
- "This is a  
☐ continuation  
☐ divisional  
of copending application(s)  
Serial number \_\_\_\_\_ / \_\_\_\_\_ filed on \_\_\_\_\_."
- d. ☐ A Petition to Suspend Prosecution For The Time Necessary to File An Amendment (New Application Filed Concurrently) is attached.

## 8. Small entity status:

- a. ☐ A small entity statement is attached.
- b. ☐ A small entity statement was filed in the prior nonprovisional application and such status is still proper and desired.
- c. ☐ Is no longer desired.

## 9. Fee Calculation:

FOR	NUMBER FILED	NUMBER EXTRA	RATE	CALCULATIONS
TOTAL CLAIMS (37 C.F.R. § 1.16(c))	35    -20 =	15	X 18.00	270.00
INDEPENDENT CLAIMS (37 C.F.R. § 1.16(b))	3        -3 =	--	X 78.00	--
MULTIPLE DEPENDENT CLAIMS (if applicable) (37 C.F.R. § 1.16(d))			260.00	--
			BASIC FEE (37 C.F.R. § 1.16(a))	690.00
Total of above Calculations =				960.00
Reduction by 50% for filing by small entity (Note 37 C.F.R. §§ 1.9, 1.27, 1.28)				
Assignment Recordal Fee			40.00	--
TOTAL =				960.00

10. ☒ A check in the amount of \$ 960.00 is enclosed.
11. ☒ The Commissioner is hereby authorized to credit overpayments or charge the following fees (or any deficiency therein) to Deposit Account No. 02-3978:
- a. ☒ Fees required under 37 C.F.R. § 1.16.
- b. ☒ Fees required under 37 C.F.R. § 1.17.

## 12. Maintenance of Copendency of Prior Application

☐ A request for extension of time and the appropriate fee have been filed in the pending **prior** application (or are being filed in the prior application concurrently herewith) to extend the period for response until \_\_\_\_\_.

13. ☒ An Information Disclosure Statement (IDS) is attached, along with the following indicated attachments thereto:

a. ☒ Form PTO/SB/08A (2\_\_\_\_\_ sheet(s))

b. ☒ Copies of references cited

14. ☐ Certified copy of priority document(s)15. ☒ Return Receipt Postcard

16. ☐ Other: \_\_\_\_\_

17. ☐ An Assignment of the invention to \_\_\_\_\_

a. ☐ is attached.

b. ☐ was recorded on \_\_\_\_\_ at Reel \_\_\_\_\_, Frame \_\_\_\_\_.

## 18. The power of attorney in the prior application is to:

\_\_\_\_\_  
Name of Attorney of Record

\_\_\_\_\_  
Reg. No.

☐ The power appears in the original papers in the prior application.

☐ The power does not appear in the original papers, but was filed on \_\_\_\_\_.

☐ A new power has been executed and is attached.

## 19. Correspondence Address: Please address all future communications to:

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Respectfully submitted,

Date September 26, 2000

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☒ Attorney or agent of record  
☐ Filed under Rule 34(a)

## PORTABLE URINAL

### TECHNICAL FIELD

This invention relates to a portable urinal for collecting and storing the urine of a user.

5

### BACKGROUND ART

Portable urinals provide users with a place to urinate when restroom facilities are unavailable or unreachable. There are many circumstances for which a portable urinal is helpful. For example, many people suffer from urinary incontinence, which requires that they often must quickly and unexpectedly reach  
10 toilet facilities. Other people may require the use of a portable urinal due to temporarily immobilization or other medical conditions which prohibit them from reaching the restroom without assistance. Still other people find portable urinals useful in common situations such as during long car trips or during traffic backups when restroom facilities cannot be reached in a timely manner. Even leisure  
15 activities such as camping, hiking, boating, or fishing can present situations where portable urinals are desirable.

Portable urinals come in a variety of sizes and configurations. Certain portable urinals are designed to be completely reusable. Such urinals are both economical and environmentally-friendly. However, reusing a portable urinal  
20 requires that all of its parts be sufficiently cleaned, which can be a time-consuming as well as unpleasant task. To avoid these problems, other portable urinals have been designed to be completely disposable. While more convenient, the cost of replacing the entire urinal after each use is a detriment.

As a compromise, some portable urinals have been configured to have  
25 both reusable and disposable parts. However, such portable urinals often suffer the

disadvantages of being difficult to set up for use, or difficult to seal in order to retain the collected urine for later disposal.

Whether reusable or disposable, a portable urinal should be able to accommodate the different anatomical requirements of men and women. Typically, urinals are designed for use by only one gender. When urinals are intended to be unisex, urine collection is often not optimized for one gender or the other. In addition, many portable urinals are large and bulky, making them less discreet and detracting from their ease of portability.

### DISCLOSURE OF INVENTION

Therefore, it is an object according to the present invention to provide an improved portable urinal which is easily assembled for urine collection and disassembled for urine disposal.

It is another object according to the present invention to provide a portable urinal in which urine can be easily and safely stored for later disposal.

It is still another object according to the present invention to provide a portable urinal capable of accommodating both male and female users.

Accordingly, a portable urinal is provided for collecting and storing urine from a user. The portable urinal includes a receptacle for collecting the urine, where the receptacle includes a body portion having an inlet sized to sufficiently receive the genitourinary area of the user, and an outlet. The portable urinal further includes a storage container for storing the urine, where the storage container has an inlet for receiving the urine from the receptacle. A connector attached to the storage container receives the storage container inlet and removably receives the receptacle outlet, such that the connector releasably joins the receptacle with the storage container allowing the urine to flow from the receptacle outlet into the storage container inlet.

In accordance with the present invention, the receptacle inlet can be sized to receive the genitourinary area of a male user, or can be sized to receive the genitourinary area of a female user. In a preferred embodiment, the receptacle is designed to be reusable, and the storage container is designed to be disposable.

- 5 Preferably, the storage container includes a flexible bag which includes a powder substance contained therein for absorbing the urine. The receptacle body portion can also include a handle formed therein to improve ease of use.

The connector can either be press fit or welded onto the storage container. In order to releasably join the receptacle with the storage container such that the receptacle can be removed from the storage container, the receptacle outlet preferably includes at least one projection, and the connector includes at least one slot sized to slidably receive the projection. The receptacle is then secured to the connector by rotating the receptacle with respect to the connector such that the projection is moved to an end of the slot.

- 10  
15 In a preferred embodiment of the present invention, the portable urinal includes a cap adapted to be received by the connector for sealing the storage container following removal of the receptacle. The sealed storage container can then be disposed and replaced with another, unused storage container. Similar to the receptacle outlet, the cap preferably includes at least one projection, and the connector includes at least one slot sized to slidably receive the projection. The cap is then secured to the connector by rotating the cap with respect to the connector such that the projection is moved to an end of the slot.

- 20  
25 In one embodiment of the present invention, the receptacle outlet or, alternatively, a distal end of the cap is received in the storage container inlet. In another embodiment, the connector includes a bracket having first and second bracket members, and a funnel enclosed by the bracket. The first bracket member includes projections, and the second bracket member includes apertures sized to receive the projections to secure the first and second bracket members together. The funnel, in turn, includes an inlet portion for engaging the receptacle outlet and an outlet portion that protrudes below the bracket and is adapted to be received in the

storage container inlet. Still further, the first and second bracket members include a set of internal flanges between which the funnel inlet portion is received such that axial movement of the funnel with respect to the bracket members is prohibited.

In further accordance with the present invention, a portable urinal kit for collecting and storing urine is provided. The kit includes a female receptacle for collecting urine from a female user, where the female receptacle includes a body portion having an inlet sized to sufficiently receive the genitourinary area of the female user, and a relatively smaller outlet. The kit also includes a male receptacle for collecting urine from a male user, where the male receptacle includes a body portion having an inlet sized to sufficiently receive the genitourinary area of the male user, and a relatively smaller outlet. Additionally, the kit includes one or more disposable storage containers for storing the urine, each storage container having an inlet for receiving urine from a selected one of the female and male receptacles. A connector is attached to the storage container inlet and adapted to receive the outlet of the selected receptacle, thereby allowing urine to flow from the selected receptacle outlet into the storage container inlet. The connector releasably joins the selected receptacle with the storage container such that the selected receptacle can be removed from the storage container. Lastly, the kit includes a cap adapted to be received by the connector for sealing the storage container following removal of the selected receptacle. In this way, the sealed storage container can be disposed and replaced with another, unused storage container.

The above objects and other objects, features, and advantages of the present invention are readily apparent from the following detailed description of the best mode for carrying out the invention when taken in connection with the accompanying drawings.

## BRIEF DESCRIPTION OF DRAWINGS

FIGURE 1 is a perspective view of a first embodiment of a portable urinal in accordance with the present invention, wherein a male receptacle is utilized;

FIGURE 2a is a front elevational view of the portable urinal of FIG. 1;

FIGURE 2b is a rear elevational view of the portable urinal of FIG. 1;

FIGURE 3 is a top plan view of the portable urinal of FIG. 1;

FIGURE 4 is a left side elevational view of the portable urinal of FIG. 1;

FIGURE 5 is a right side elevational view of the portable urinal of FIG. 1;

FIGURE 6 is an exploded perspective view of the portable urinal of FIG. 1;

FIGURE 7 is a perspective view of a second embodiment of the portable urinal according to the present invention, wherein a female receptacle is utilized;

FIGURE 8 is a front elevational view of the portable urinal of FIG. 7;

FIGURE 9 is a top plan view of the portable urinal of FIG. 7;

FIGURE 10 is a left side elevational view of the portable urinal of FIG. 7;

FIGURE 11 is a right side elevational view of the portable urinal of FIG. 7;



FIGURE 12 is an exploded perspective view of the portable urinal of FIG. 7;

FIGURE 13 is a perspective view of a third embodiment of the portable urinal according to the present invention, wherein a cap is utilized to seal the storage container;

FIGURE 14 is a front elevational view of the portable urinal of FIG. 13;

FIGURE 15 is a top plan view of the portable urinal of FIG. 13;

FIGURE 16 is a left side elevational view of the portable urinal of FIG. 13;

FIGURE 17 is an exploded perspective view of the portable urinal of FIG. 13;

FIGURE 18 is an exploded, perspective view of the connector and cap according to the present invention;

FIGURE 19 is an exploded, front elevational view of the connector and cap;

FIGURE 20 is a perspective view of the assembled connector and cap;

FIGURE 21 is a right side elevational view of the assembled connector and cap;

FIGURE 22 is a left side elevational view of the assembled connector and cap;

FIGURE 23 is a top plan view of the assembled connector and cap;

FIGURE 24 is a perspective view of a second embodiment of the connector in accordance with the present invention;

FIGURE 25 is a perspective view of the portable urinal wherein the male receptacle and the connector of FIG. 24 are utilized;

FIGURE 26 is a front elevational view of the portable urinal of FIG. 25;

FIGURE 27 is a rear elevational view of the portable urinal of FIG. 25;

FIGURE 28 is a perspective view of a third embodiment of the connector in accordance with the present invention;

FIGURE 29 is a perspective view of the portable urinal wherein the male receptacle and the connector of FIG. 28 are utilized;

FIGURE 30 is a front elevational view of the portable urinal of FIG. 29; and

FIGURE 31 is a rear elevational view of the portable urinal of FIG. 29.

### **BEST MODE FOR CARRYING OUT THE INVENTION**

Referring to FIGS. 1-6, illustrated is a first embodiment of a portable urinal 10 for collecting and storing urine from a user according to the present invention. Portable urinal 10 includes a receptacle 12 for collecting the urine, where receptacle 12 includes a body portion 14 having an inlet 16 and a relatively smaller outlet 18 spaced from the inlet 16. In the embodiment depicted in FIGS. 1-6, receptacle inlet 16 and body portion 14 are sized and shaped to sufficiently receive the genitourinary area of a typical male user for directing the urine stream into the

receptacle 12. As shown, body portion 14 of male receptacle 12 is generally cylindrical in shape, widening proximally to form receptacle inlet 16 which is angled toward the user. At its distal end, body portion 14 terminates in receptacle outlet 18 of relatively smaller diameter. Although receptacle outlet 18 is smaller than receptacle inlet 16, the diameter of outlet 18 is large enough to avoid urine pooling in receptacle 12.

In a preferred embodiment, receptacle 12 is molded of a thermoplastic material such as polypropylene or other suitable material, and is designed to be smooth, durable, and reusable. Advantageously, portable urinal 10 can be positioned to collect urine whether the user is standing or sitting. As best shown in FIGS. 1-6, receptacle body portion 14 can include a handle 20 formed therein to improve ease of use. Handle 20 reduces the amount of hand dexterity needed to position receptacle 12 properly with respect to the user's genitourinary area.

Portable urinal 10 according to the present invention is capable of accommodating both male and female users. Turning now to FIGS. 7-12, a second embodiment of the portable urinal 10' is depicted in which a female receptacle 12' is utilized. The reference numerals for portable urinal 10' of FIGS. 7-12 correspond generally with the reference numerals for portable urinal 10 (having male receptacle 12) of FIGS. 1-6 with the addition of a prime "'" designation. In contrast to male receptacle 12, inlet 16' of female receptacle 12' has a wide oval shape in order to sufficiently receive the genitourinary area of a typical female user. Body portion 14' slopes downwardly from inlet 16' toward a smaller outlet 18' in the direction of the user. As with male receptacle 12, outlet 18' of female receptacle 12' is of sufficient diameter to avoid the pooling of urine. As described below, male receptacle 12 and female receptacle 12' are easily interchanged, allowing for optimal urine collection from both male and female users.

Referring again to FIGS. 1-12, portable urinal 10 further includes a storage container 22 for storing the collected urine. In the preferred embodiment shown herein, storage container 22 comprises a flexible storage bag constructed from plastic, rubber, or another suitable material which is capable of containing human

urine therein. Prior to use, storage bag 22 can be rolled up for compact storage. After use, storage bag 22 is designed to be disposable. Storage bag 22 is constructed to be leak resistant and waterproof, so as to provide for the containment of urine until storage bag 22 can be disposed of conveniently. As further leakage protection, storage bag 22 preferably includes a powder substance 21 (see FIG. 26) contained therein for absorbing the urine. More particularly, each storage bag 22 is preferably pre-filled with a sanitizing gelling powder which includes a combination of absorbing polymers and enzymes to quickly deodorize and solidify the urine into a condensed gel.

Storage bag 22 includes a lower body 24 with a hollow interior, and an inlet 26 (FIG. 6) extending upwardly from the lower body 24 for receiving the urine from receptacle 12, 112. On both sides of inlet 26, storage bag 22 includes a generally flat seam region 28. In one embodiment, a connector 30 is press fit onto seam region 28 so as to receive storage bag inlet 26 therein as shown, for example, in FIGS. 1, 7, and 13. As shown in FIGS. 17-23, and as best shown in the exploded views of FIG. 6, 12, and 17-19, connector 30 includes a bracket 32 having first 34 and second 36 bracket members. Each bracket member 34, 36 includes a central concave portion 38 sized to receive inlet 26 when assembled, and generally flat exterior attachment panels 40, 42, respectively, that serve to secure the first 34 and second 36 bracket members together. More specifically, attachment panels 40 of first bracket member 34 include projections 44 extending inwardly from its inner surface, and attachment panels 42 of second bracket member 36 include apertures 46 sized to receive the projections 44 in order to secure first bracket member 34 to second bracket member 36.

Still referring to FIGS. 6, 12, and 17-19, connector 30 further includes a funnel 48 enclosed and supported by bracket 32. Funnel 48 is generally cylindrical and includes an inlet portion 50 for preferably engaging receptacle outlet 18, 118. Funnel 48 further includes an outlet portion 52 that protrudes below bracket 32 and is adapted to be received in storage bag inlet 26. Storage bag inlet 26, therefore, is disposed between bracket members 34, 36 and funnel 48 which serves to ensure that inlet 26 remains open for receiving the collected urine. As

shown, funnel inlet portion 50 has a larger diameter than funnel outlet portion 52. First 34 and second 36 bracket members include a set of internal flanges 54 or ribs between which funnel inlet portion 50 is received such that axial movement of funnel 48 with respect to bracket members 34, 36 is prohibited.

As shown in FIGS. 24-27, a second embodiment of connector 130 is adapted to be welded onto storage bag 22 via vibration welding, ultrasonic welding, or other suitable plastic joining techniques. The reference numerals for connector 130 of FIGS. 24-27 correspond generally with the reference numerals for connector 30 of FIGS. 1-23 except for the addition of a "1" prefix. In contrast to connector 30, connector 130 is formed as a one piece cylindrical part having a flange 168, shown as annular in shape. Flange 168 contacts a neck region 23 of storage bag 22, wherein neck region 23 includes a corresponding flange to which flange 168 is welded. A distal end 170 of connector 130 is adapted to be received in storage bag inlet 26.

With reference to FIGS. 28-31, a third embodiment of connector 230 is shown, wherein the reference numerals for connector 230 correspond generally with the reference numerals for connector 30 of FIGS. 1-23 except for the addition of a "2" prefix. As with connector 130, connector 230 is formed as a one piece cylindrical part which is adapted to be welded onto storage bag 22. More particularly, a distal end 272 of connector 230 is adapted to be received in storage bag inlet 26 and then welded thereto.

As best shown in FIGS. 18-23, concave portions 38 of bracket members 34, 36 each include a generally L-shaped slot or groove 56 formed therein. Likewise, connector 230 of FIGS. 28-31 includes generally L-shaped slots 256, and connector 130 of FIGS. 24-27 includes slots or grooves 156 formed therein which extend partially around connector 130 in a generally helical pattern. Each slot 56, 156, 256 is sized to slidably receive a projection 58, 158 formed on receptacle outlet 18, 18'. For assembly, projections 58, 58' are aligned with slots 56, 156, 256 and receptacle 12, 12' is moved into contact with connector 30, 130, 230. Receptacle 12, 12' is then secured to connector 30, 130, 230 by rotating receptacle 12, 12' in

a first direction with respect to connector 30, 130, 230 such that projections 58, 58' are moved to ends 60, 160, 260 of slots 56, 156, 256. In this way, connector 30, 130, 230 is operable to releasably join receptacle 12, 12' with storage bag 22, allowing the urine to flow from receptacle outlet 18, 18' into storage container inlet 26. For disassembly, receptacle 12, 12' can be removed from storage bag 22 by rotating receptacle 12, 12' in the opposite direction with respect to connector 30, 130, 230 to move projections 58, 58' away from slot ends 60, 160, 260 and then lifting upwardly. Therefore, receptacle 12, 12' and storage bag 22 can be quickly assembled for use, and easily disassembled for storage, cleaning, or interchanging with another receptacle 12, 12'.

Referring now to FIGS. 13-23, a cap 62 is adapted to be received by connector 30, 130, 230 for sealing storage bag 22 following removal of receptacle 12, 12', allowing urine to be easily and safely stored within storage bag 22 for later disposal. Similar to receptacle outlet 18, 18', cap 62 includes projections 64 that are slidably received in connector slots 56, 156, 256. In order to secure cap 62 to connector 30, 130, 230, cap projections 64 are aligned with slots 56, 156, 256, cap 62 is moved into contact with connector 30, 130, 230, and then cap 62 is rotated in a first direction with respect to connector 30, 130, 230 such that projections 64 are moved to slot ends 60, 160, 260, thereby locking the cap 62 within connector 30, 130, 230. The sealed storage bag 22 can then be disposed and another, unused storage container 22 can be joined with receptacle 12 or 12' for subsequent use.

Although particular configurations of receptacle outlet 18, 118, cap 62, and connector 30, 130, 230 are shown and described herein, other configurations capable of allowing quick and easy assembly and disassembly of these components are fully contemplated in accordance with the present invention. For example, in an alternative embodiment of the present invention, funnel 48 can be eliminated and receptacle outlet 18, 118 or, alternatively, a distal end of cap 62 is extended and is received in storage container inlet 26.

Further, in accordance with the present invention, it is contemplated that a kit could be provided including male receptacle 12, female receptacle 112, and

a plurality of storage bags 22 and caps 62. The kit would preferably further include disposable cleansing cloths (not shown) for personal hygiene purposes as well as for cleaning receptacle 12, 112. Since storage bags 22 can be collapsed and rolled up prior to use, such as kit would require little more space than the volume of the male and female receptacles. The kit could be furnished in a carry bag that can be stored in a compact space, such as the glove compartment of a car.

While embodiments of the invention have been illustrated and described, it is not intended that these embodiments illustrate and describe all possible forms of the invention. Rather, the words used in the specification are words of description rather than limitation, and it is understood that various changes may be made without departing from the spirit and scope of the invention.

**WHAT IS CLAIMED IS:**

- 1                   1. A portable urinal for collecting and storing urine from a user,  
2                   comprising:  
3                   a receptacle for collecting the urine, the receptacle including a body  
4                   portion having an inlet and an outlet, the inlet sized to sufficiently receive the  
5                   genitourinary area of the user;  
6                   a storage container for storing the urine, the storage container having  
7                   an inlet for receiving the urine from the receptacle; and  
8                   a connector attached to the storage container for receiving the storage  
9                   container inlet and removably receiving the receptacle outlet, such that the connector  
10                  releasably joins the receptacle with the storage container allowing the urine to flow  
11                  from the receptacle outlet into the storage container inlet.
- 1                   2. The portable urinal according to claim 1, wherein the receptacle  
2                   inlet is sized to receive the genitourinary area of a male user.
- 1                   3. The portable urinal according to claim 1, wherein the receptacle  
2                   inlet is sized to receive the genitourinary area of a female user.
- 1                   4. The portable urinal according to claim 1, wherein the storage  
2                   container includes a flexible bag.
- 1                   5. The portable urinal according to claim 1, wherein the connector  
2                   is press fit onto the storage container.
- 1                   6. The portable urinal according to claim 1, wherein the connector  
2                   is welded to the storage container.
- 1                   7. The portable urinal according to claim 6, wherein the connector  
2                   includes an annular flange for contacting the storage container.





4 and an outlet portion that protrudes below the bracket and is adapted to be received  
5 in the storage container inlet.

1 17. The portable urinal according to claim 16, wherein the first  
2 bracket member includes projections, and the second bracket member includes  
3 apertures sized to receive the projections to secure the first and second bracket  
4 members together.

1 18. The portable urinal according to claim 16, wherein the first and  
2 second bracket members include a set of internal flanges between which the funnel  
3 inlet portion is received such that axial movement of the funnel with respect to the  
4 bracket members is prohibited.

1 19. The portable urinal according to claim 1, wherein the receptacle  
2 body portion includes a handle.

1 20. The portable urinal according to claim 1, wherein the storage  
2 container includes a powder substance contained therein for absorbing the urine.

1 21. A portable urinal for collecting and storing urine from a user,  
2 comprising:

3 a reusable receptacle for collecting the urine, the receptacle including  
4 a body portion having an inlet and a relatively smaller outlet, the inlet sized to  
5 sufficiently receive the genitourinary area of the user;

6 a disposable storage container for storing the urine, the storage  
7 container having an inlet for receiving urine from the receptacle;

8 a connector attached to the storage container inlet and adapted to  
9 receive the receptacle outlet thereby allowing urine to flow from the receptacle outlet  
10 into the storage container inlet, the connector releasably joining the receptacle with  
11 the storage container such that the receptacle can be removed from the storage  
12 container; and

13                   a cap adapted to be received by the connector for sealing the storage  
14 container following removal of the receptacle, wherein the sealed storage container  
15 can be disposed and replaced with another, unused storage container.

1                   22. The portable urinal according to claim 21, wherein the receptacle  
2 inlet is sized to receive the genitourinary area of a male user.

1                   23. The portable urinal according to claim 21, wherein the receptacle  
2 inlet is sized to receive the genitourinary area of a female user.

1                   24. The portable urinal according to claim 21, wherein the storage  
2 container includes a flexible bag.

1                   25. The portable urinal according to claim 21, wherein the receptacle  
2 outlet includes at least one projection, and the connector includes at least one slot  
3 sized to slidably receive the projection, wherein the receptacle is secured to the  
4 connector by rotating the receptacle with respect to the connector such that the  
5 projection is moved to an end of the slot.

1                   26. The portable urinal according to claim 21, wherein the cap  
2 includes at least one projection, and the connector includes at least one slot sized to  
3 slidably receive the projection, wherein the cap is secured to the connector by  
4 rotating the cap with respect to the connector such that the projection is moved to an  
5 end of the slot.

1                   27. A portable urinal kit for collecting and storing urine, the kit  
2 comprising:

3                   a female receptacle for collecting urine from a female user, the female  
4 receptacle including a body portion having an inlet and a relatively smaller outlet,  
5 the inlet sized to sufficiently receive the genitourinary area of the female user;

6                   a male receptacle for collecting urine from a male user, the male  
7 receptacle including a body portion having an inlet and a relatively smaller outlet,  
8 the inlet sized to sufficiently receive the genitourinary area of the male user;

9 one or more disposable storage containers for storing the urine, each  
10 storage container having an inlet for receiving urine from a selected one of the  
11 female and male receptacles;

12 a connector attached to the storage container inlet and adapted to  
13 receive the outlet of the selected receptacle thereby allowing urine to flow from the  
14 selected receptacle outlet into the storage container inlet, the connector releasably  
15 joining the selected receptacle with the storage container such that the selected  
16 receptacle can be removed from the storage container; and

17 a cap adapted to be received by the connector for sealing the storage  
18 container following removal of the selected receptacle, wherein the sealed storage  
container can be disposed and replaced with another, unused storage container.

1 28. The portable urinal kit according to claim 27, wherein the one or  
2 more storage containers include flexible bags.

1 29. The portable urinal kit according to claim 27, wherein each  
2 receptacle outlet includes at least one projection, and the connector includes at least  
3 one slot sized to slidably receive the projection, wherein the selected receptacle is  
4 secured to the connector by rotating the selected receptacle with respect to the  
5 connector such that the projection is moved to an end of the slot.

1 30. The portable urinal kit according to claim 26, wherein the cap  
2 includes at least one projection, and the connector includes at least one slot sized to  
3 slidably receive the projection, wherein the cap is secured to the connector by  
4 rotating the cap with respect to the connector such that the projection is moved to an  
5 end of the slot.

1 31. The portable urinal kit according to claim 27, wherein the  
2 connector is press fit onto the storage container and includes a bracket and a funnel  
3 enclosed by the bracket, the funnel having an inlet portion for engaging the selected  
4 receptacle outlet and an outlet portion that protrudes below the bracket and is adapted  
5 to be received in the storage container inlet.

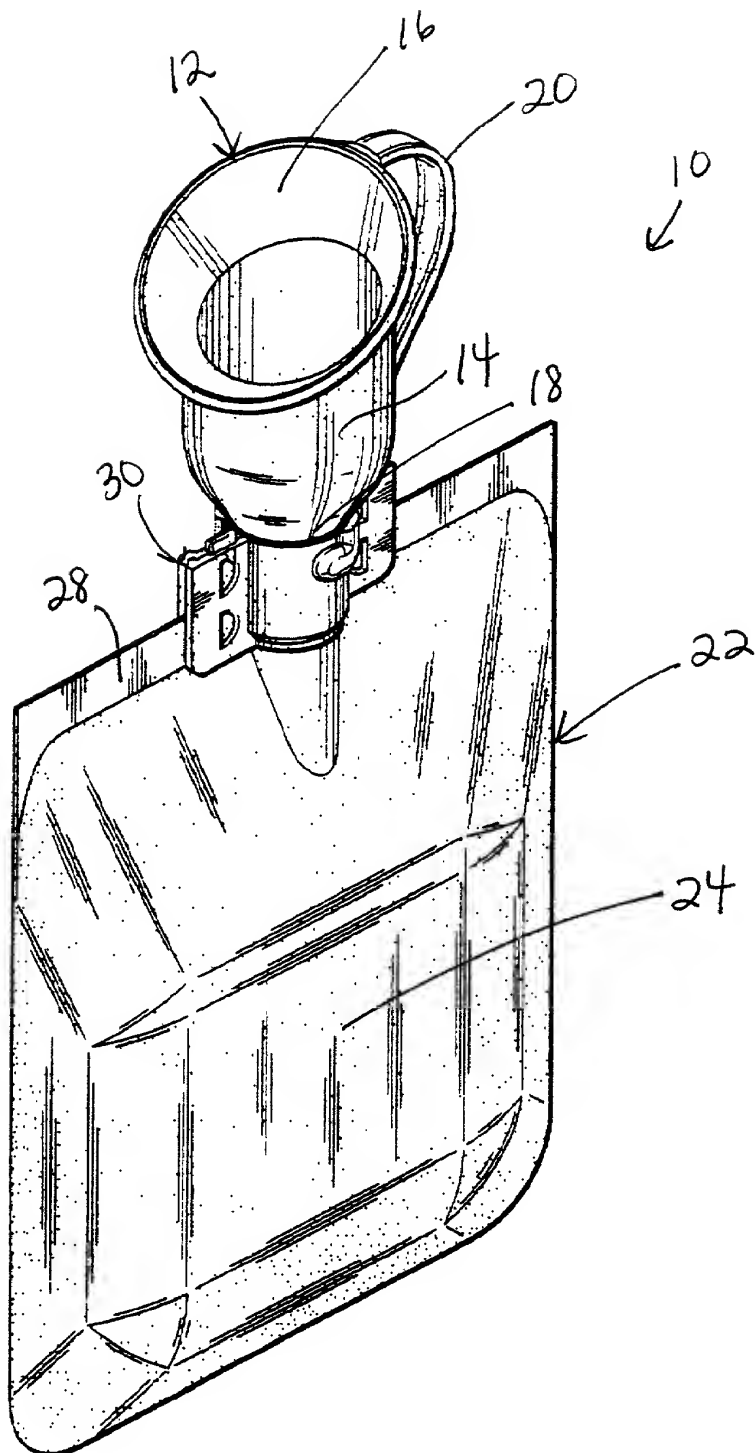
1                   32. The portable urinal kit according to claim 27, wherein the  
2 connector is welded onto the storage container and includes an annular flange for  
3 contacting the storage container and a distal end which is adapted to be received in  
4 the storage container inlet.

1                   33. The portable urinal kit according to claim 27, wherein the male  
2 receptacle body portion includes a handle.

1                   34. The portable urinal kit according to claim 27, wherein the one or  
2 more storage containers each include a powder substance contained therein for  
3 absorbing the urine.

1                   35. The portable urinal kit according to claim 27, further including  
2 one or more cleansing cloths.

A portable urinal for collecting and storing urine from a user is provided. The portable urinal includes a receptacle for collecting the urine, where the receptacle includes a body portion having an inlet sized to sufficiently receive the genitourinary area of the user, and an outlet. The portable urinal further includes a storage container for storing the urine, where the storage container has an inlet for receiving the urine from the receptacle. A connector attached to the storage container receives the storage container inlet and removably receives the receptacle outlet, such that the connector releasably joins the receptacle with the storage container allowing the urine to flow from the receptacle outlet into the storage container inlet.



**Fig. 1**

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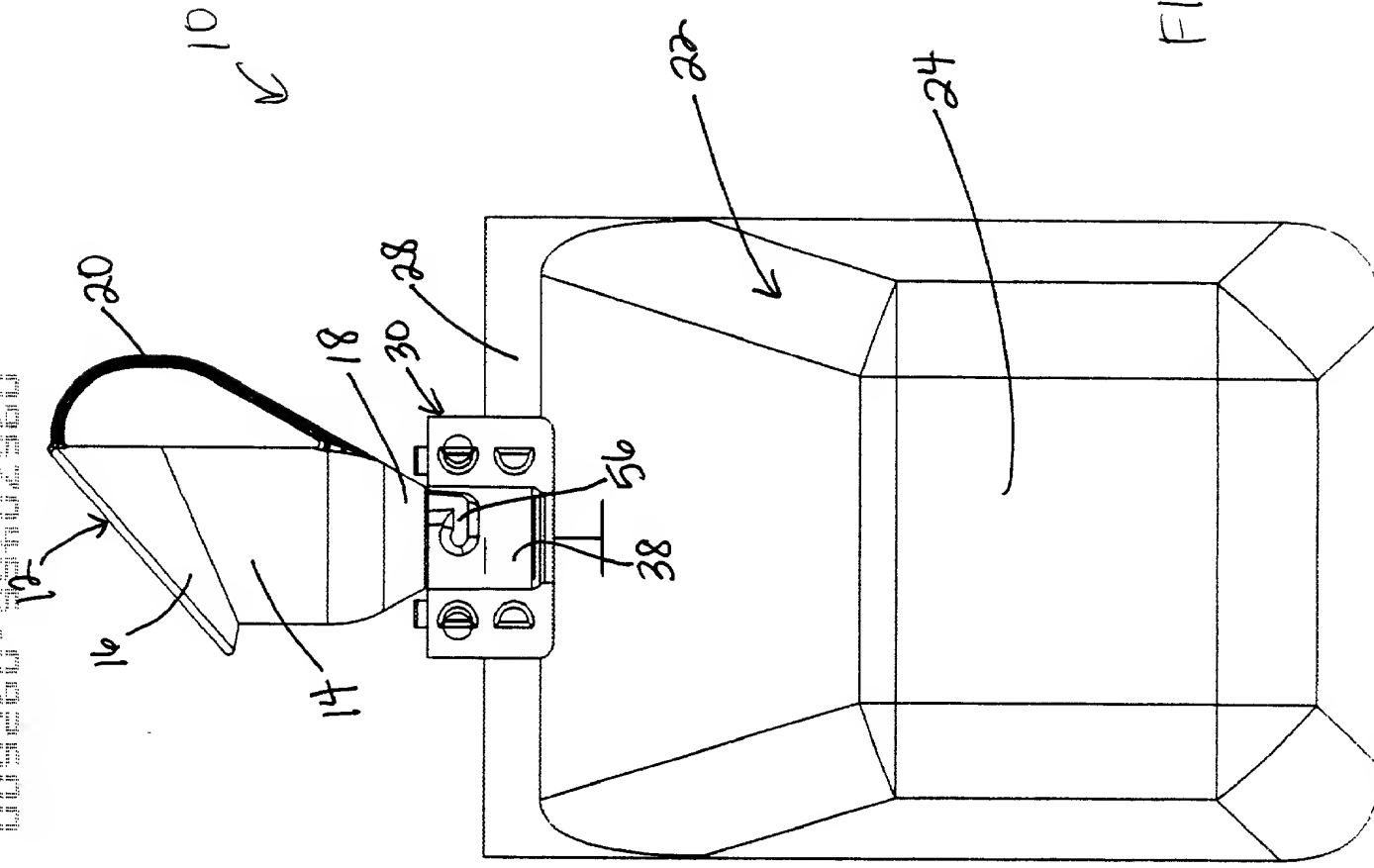
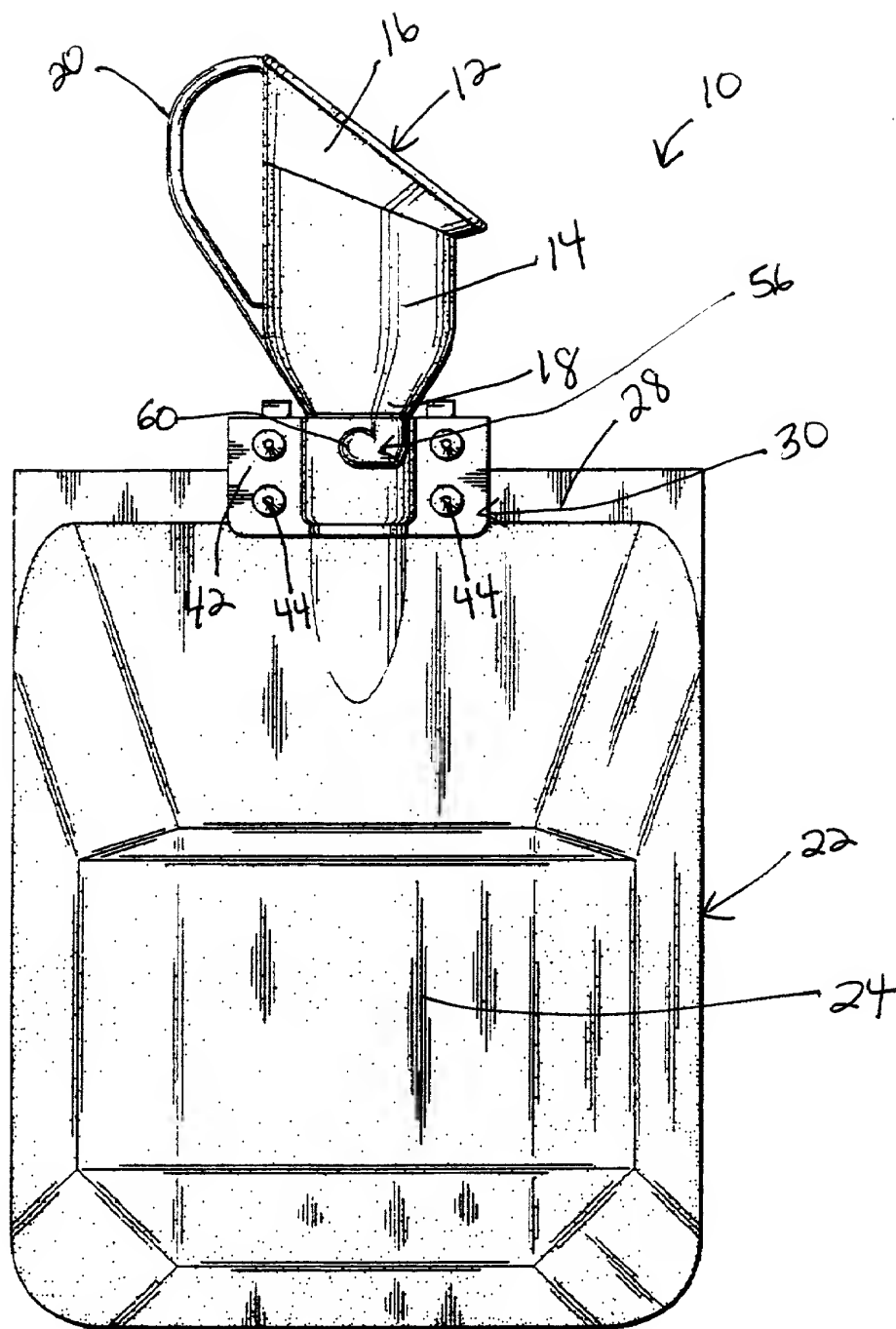


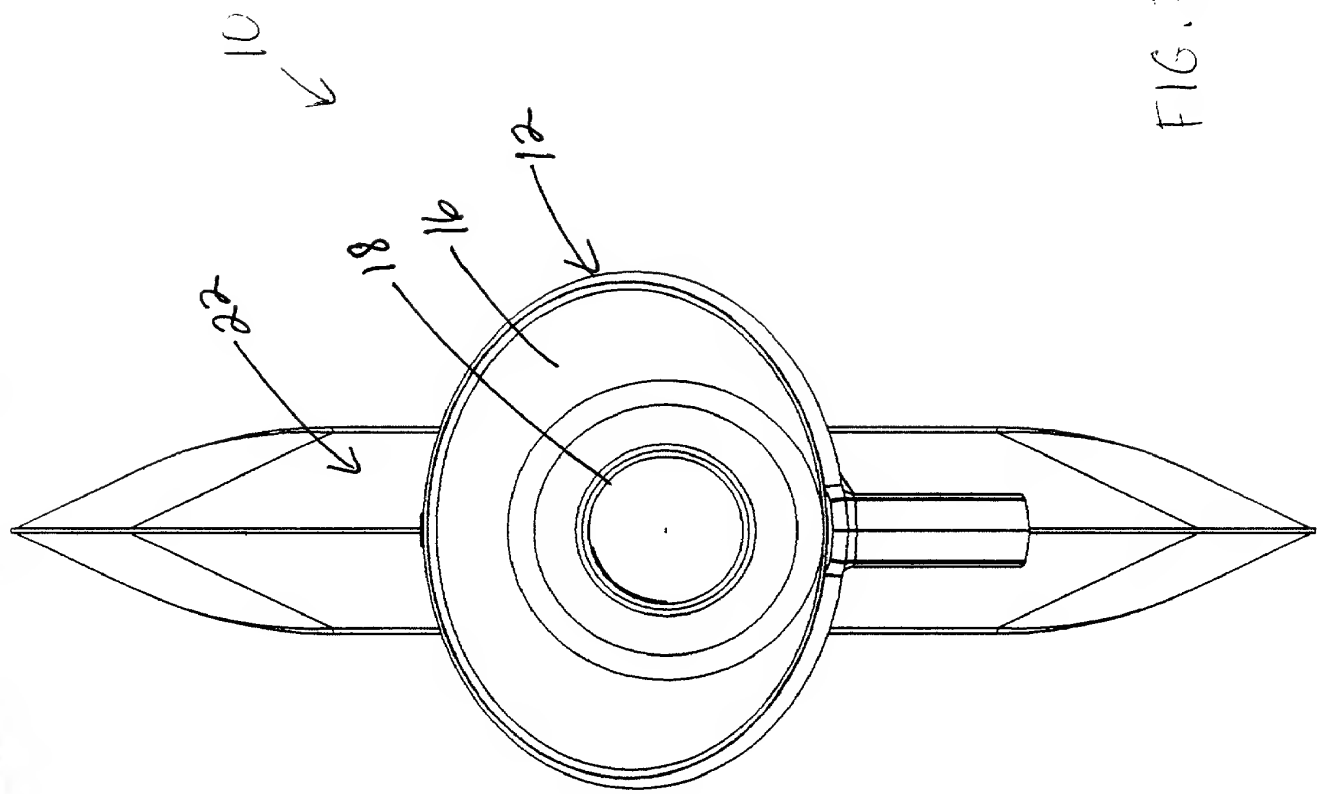
FIG. 2a



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*Fig. 2b*



3. 16. F

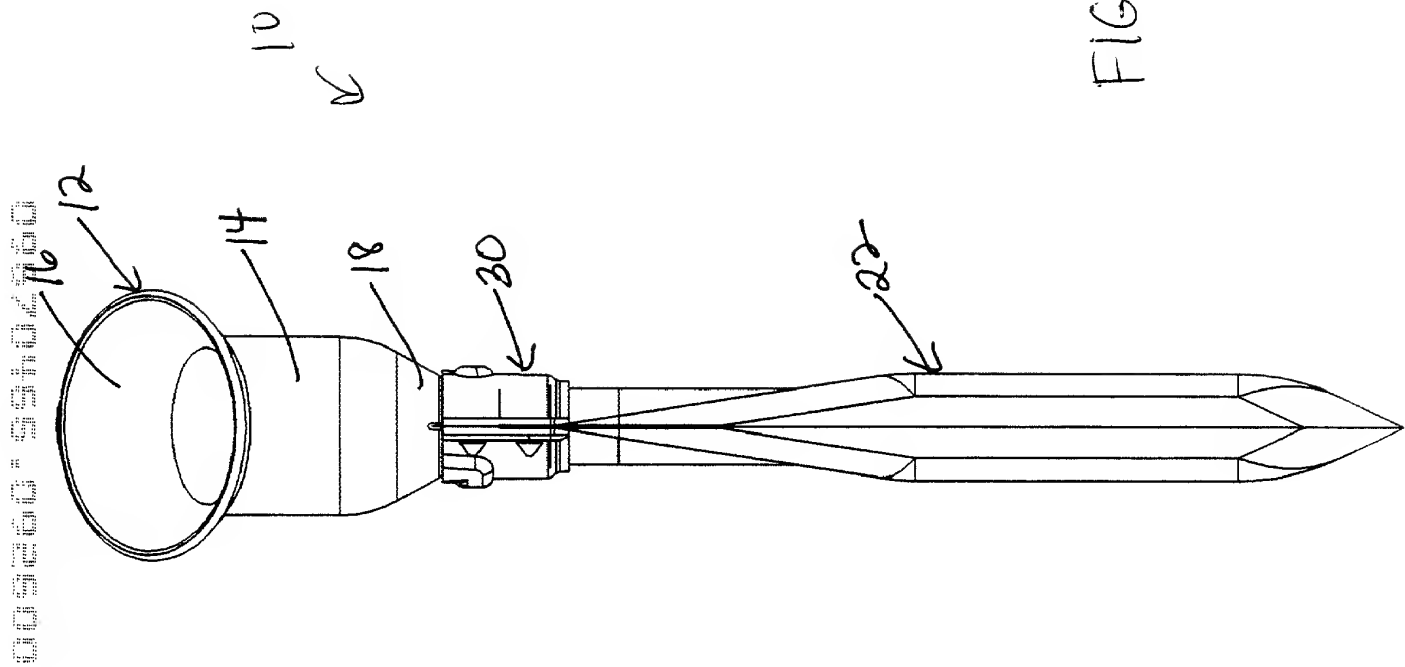


FIG. 4



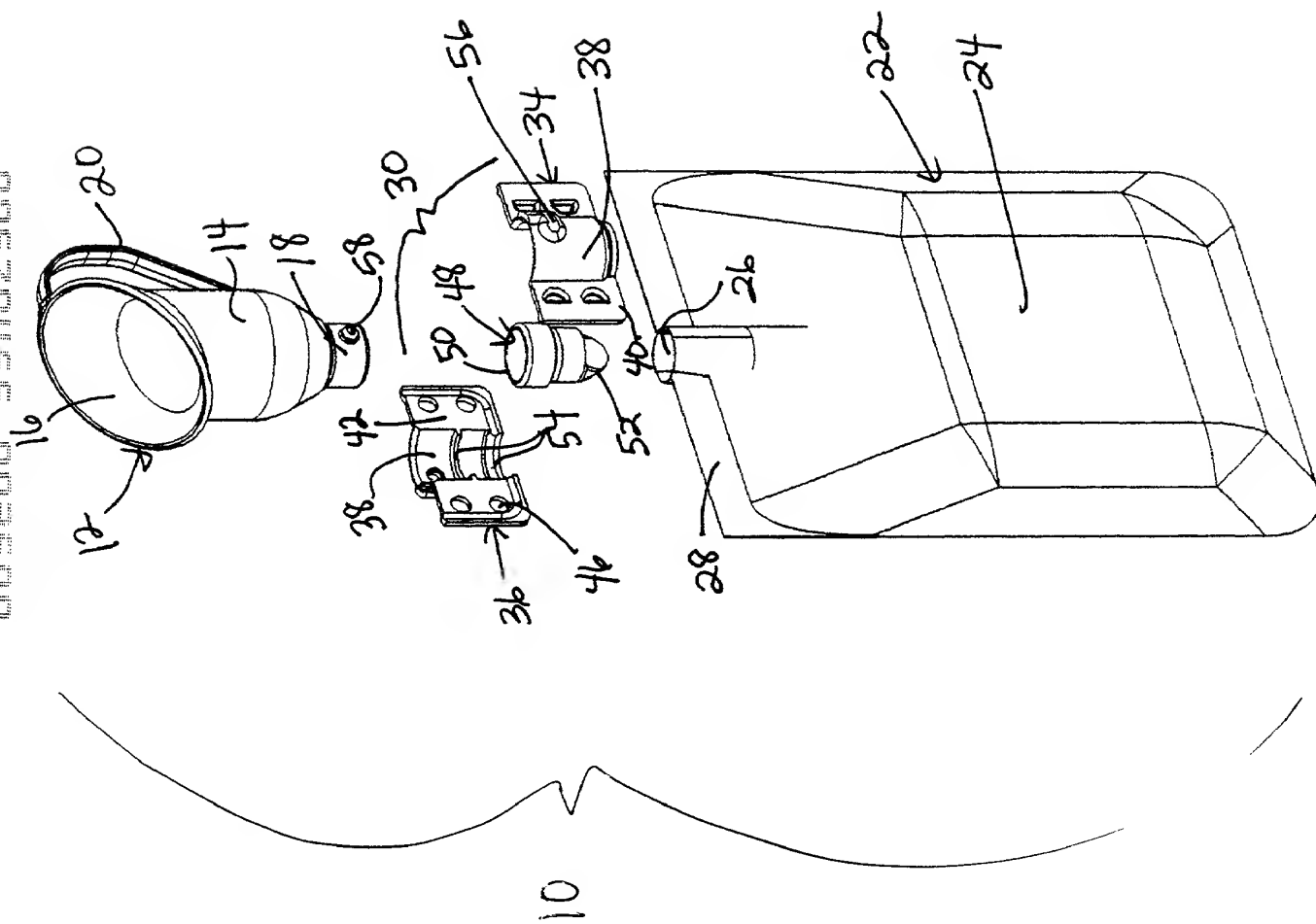


Fig. 6

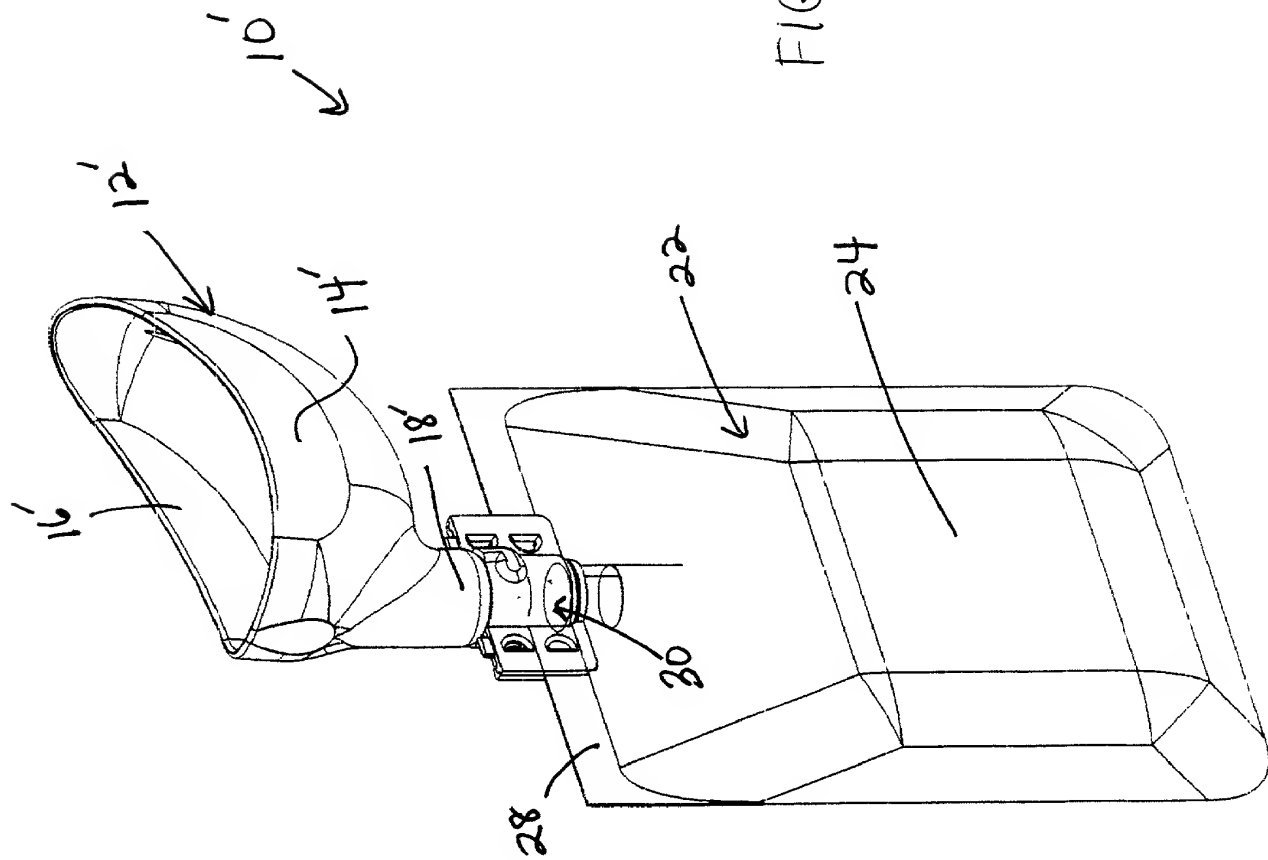


FIG. 7

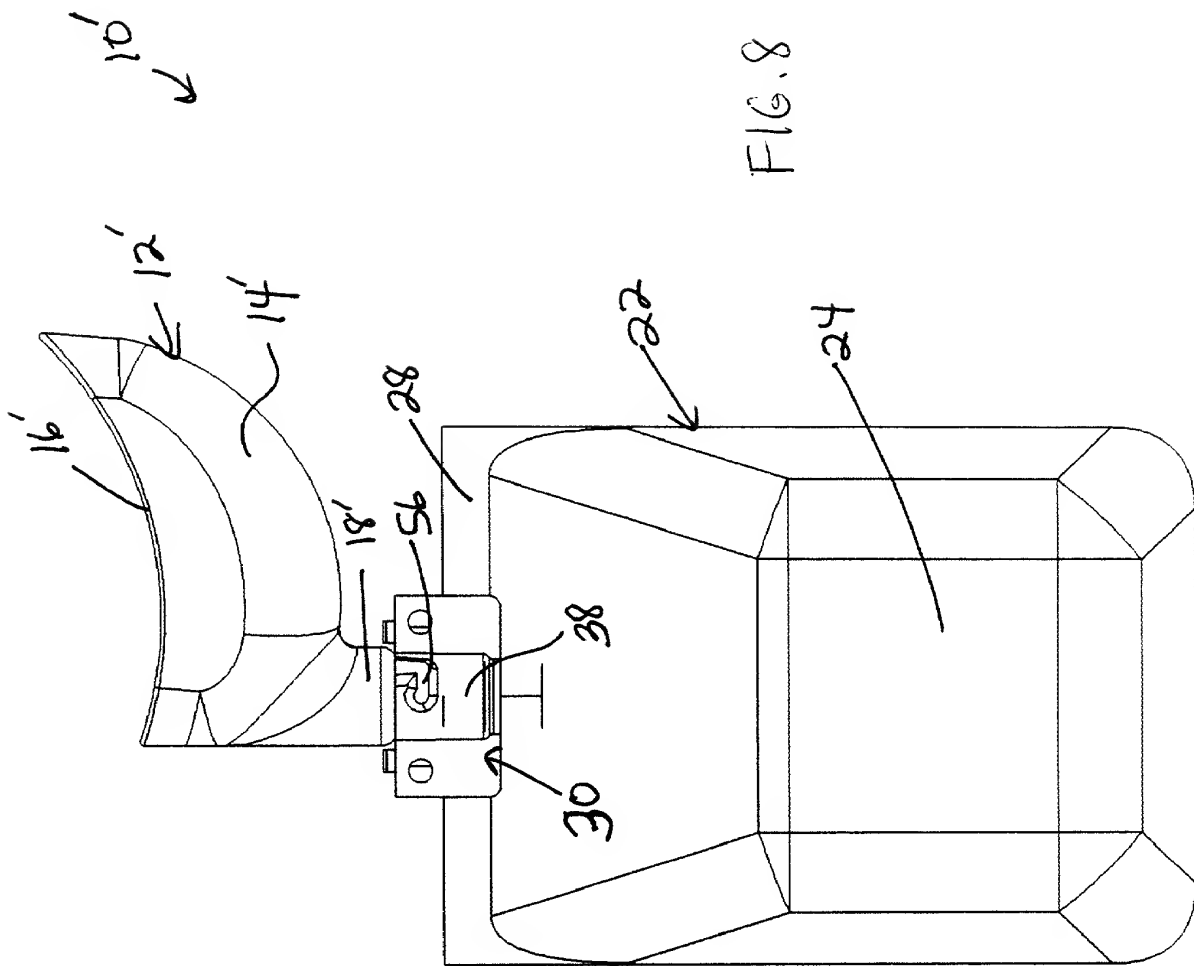


FIG. 8

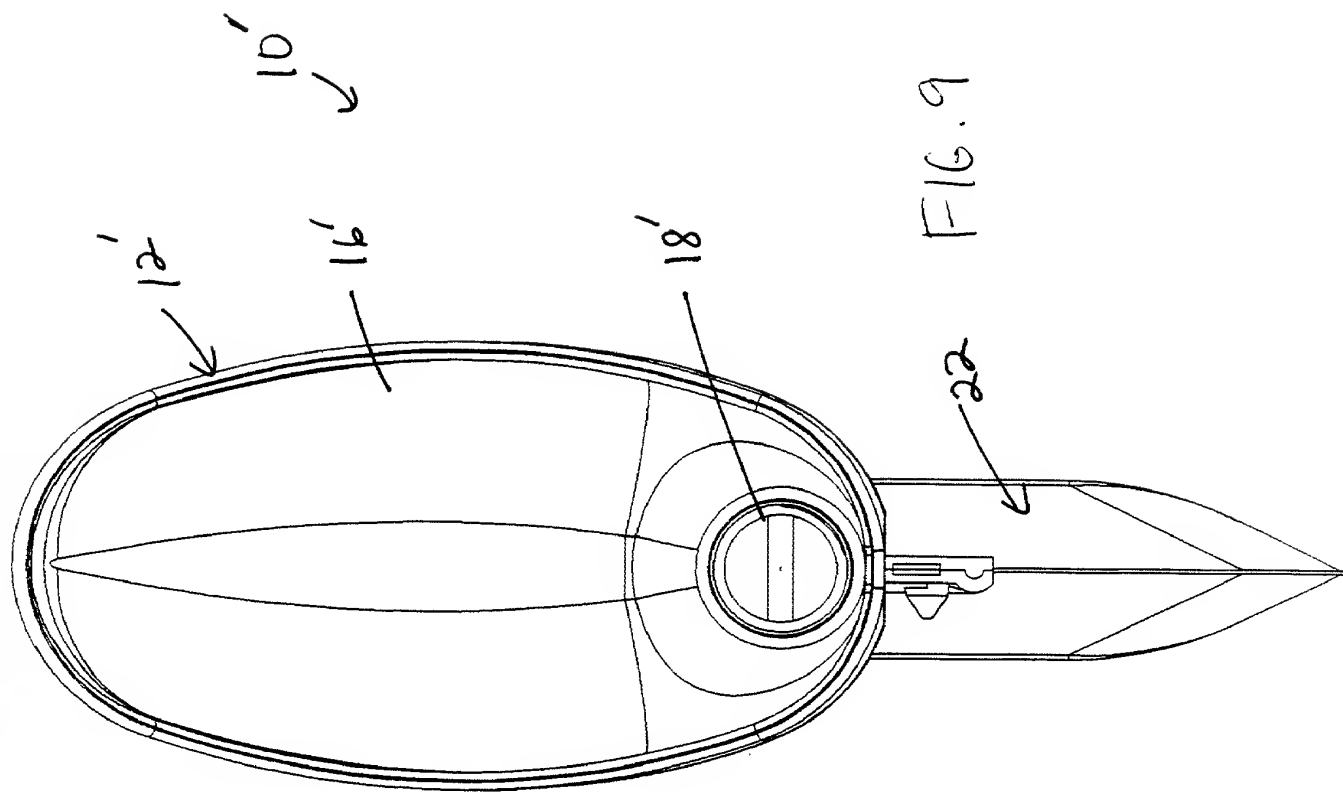


FIG. 9





FIG. 10

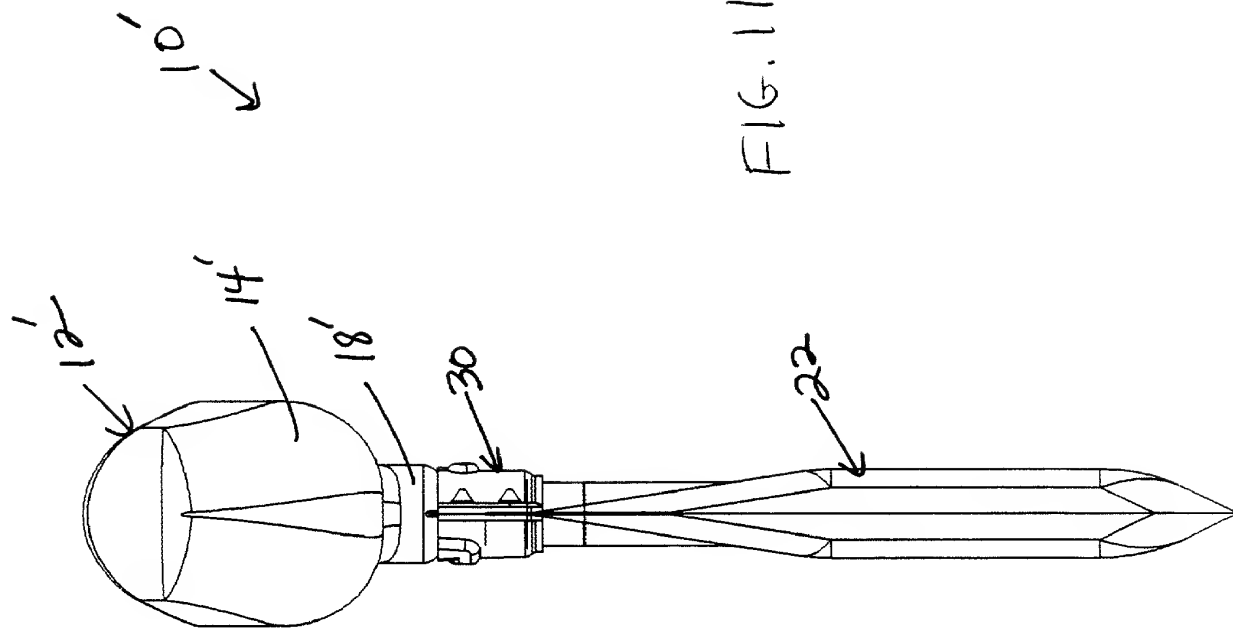


FIG. 11

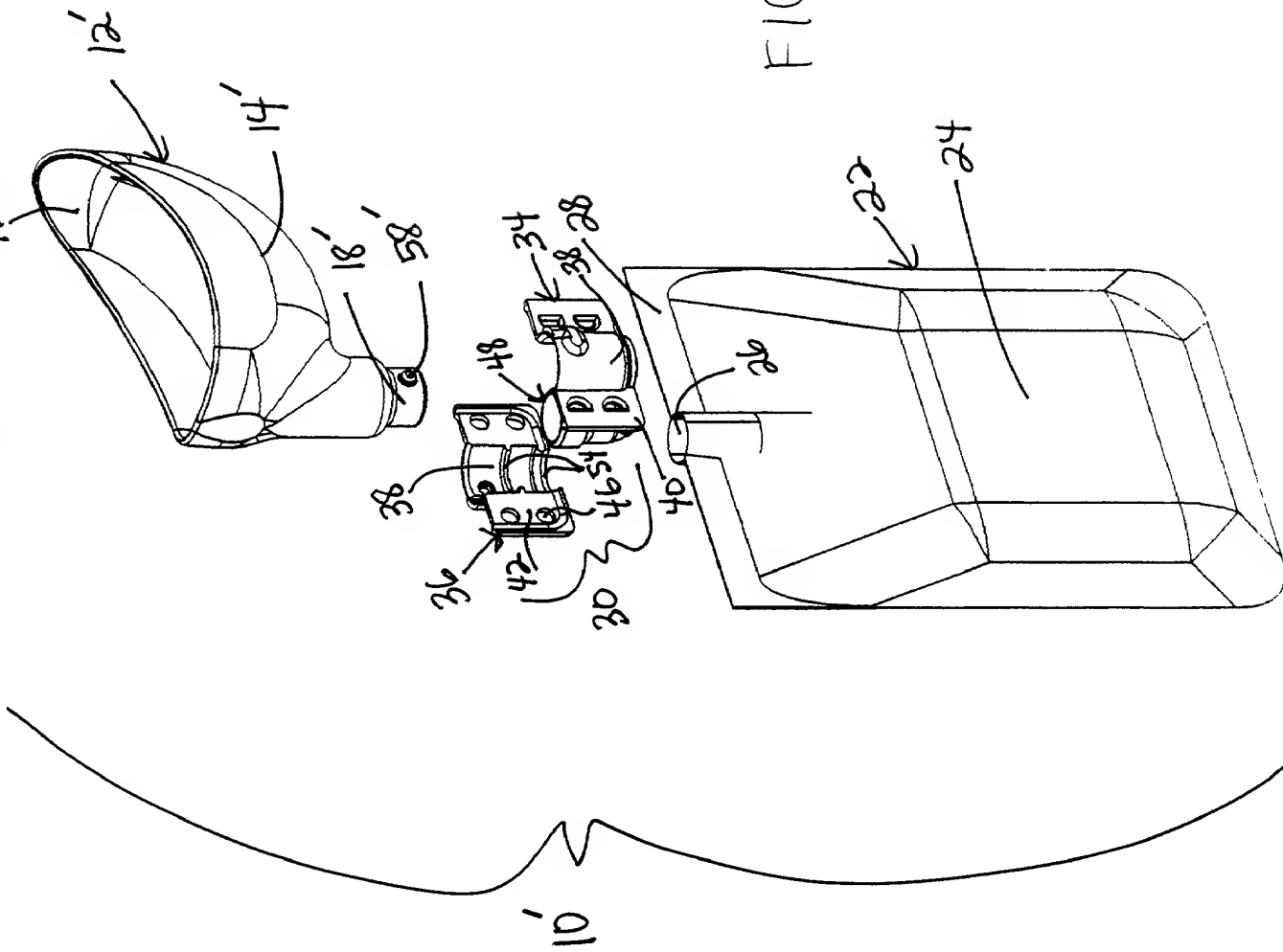
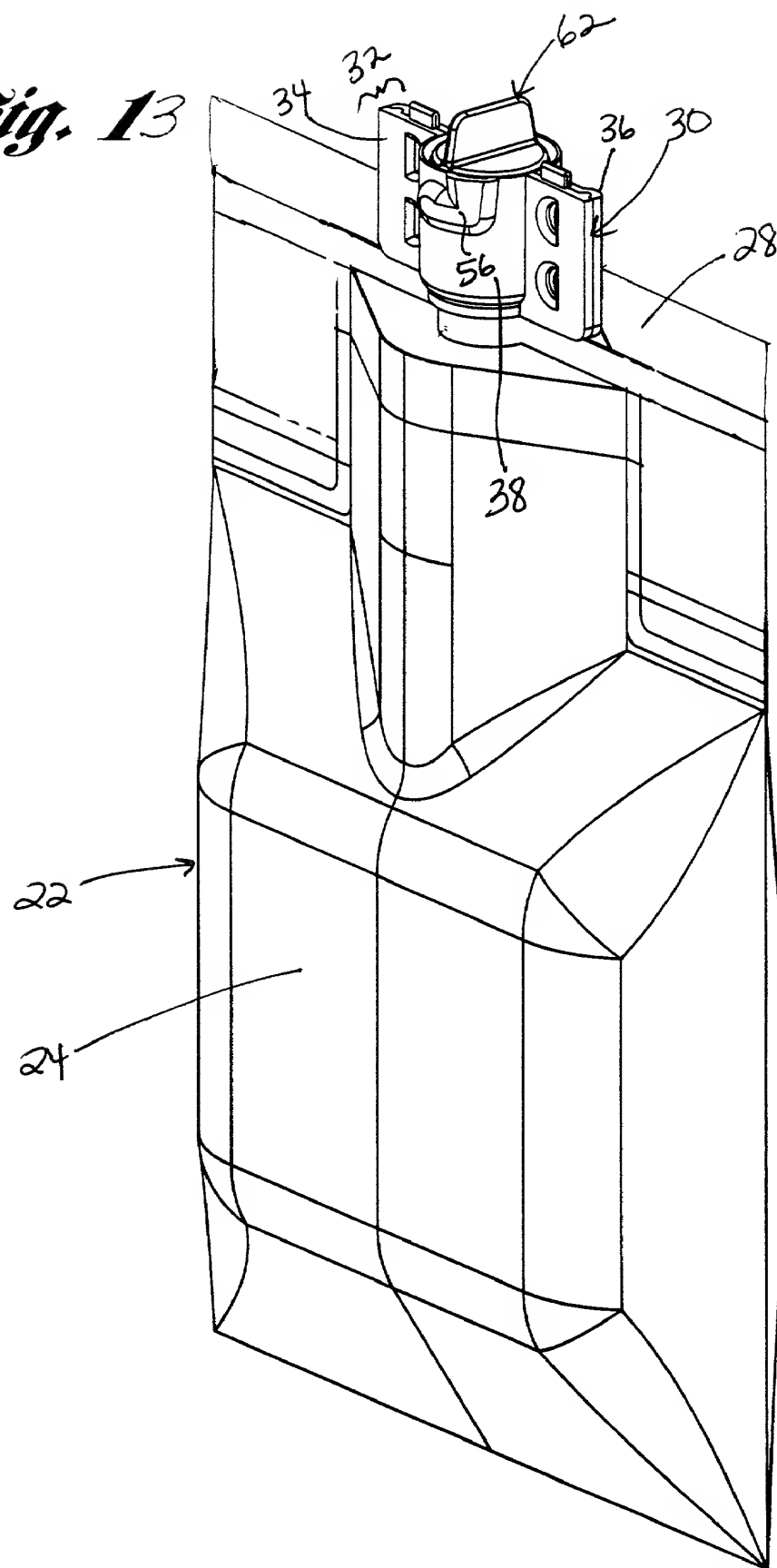
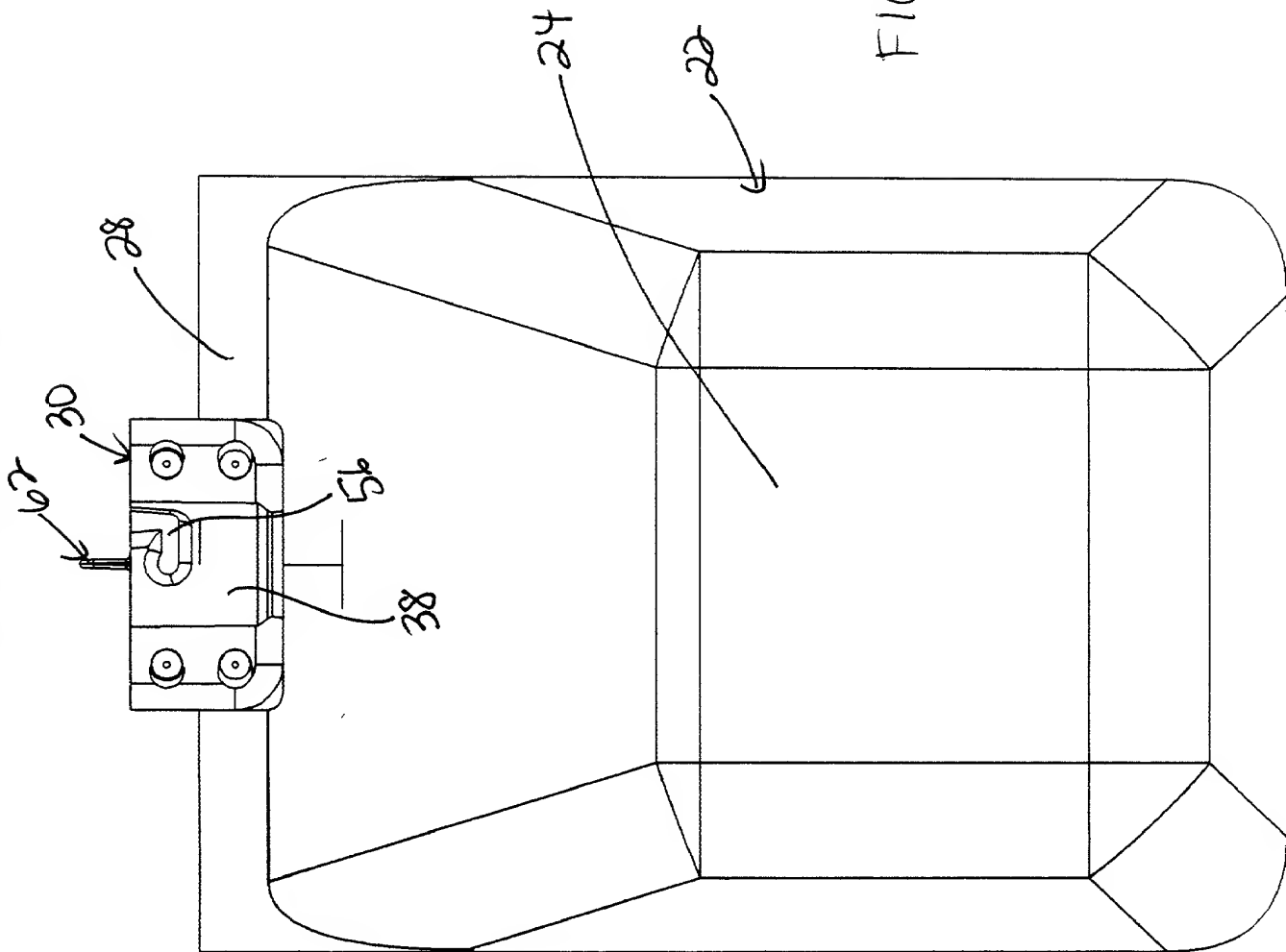


FIG. 12

*Fig. 13*





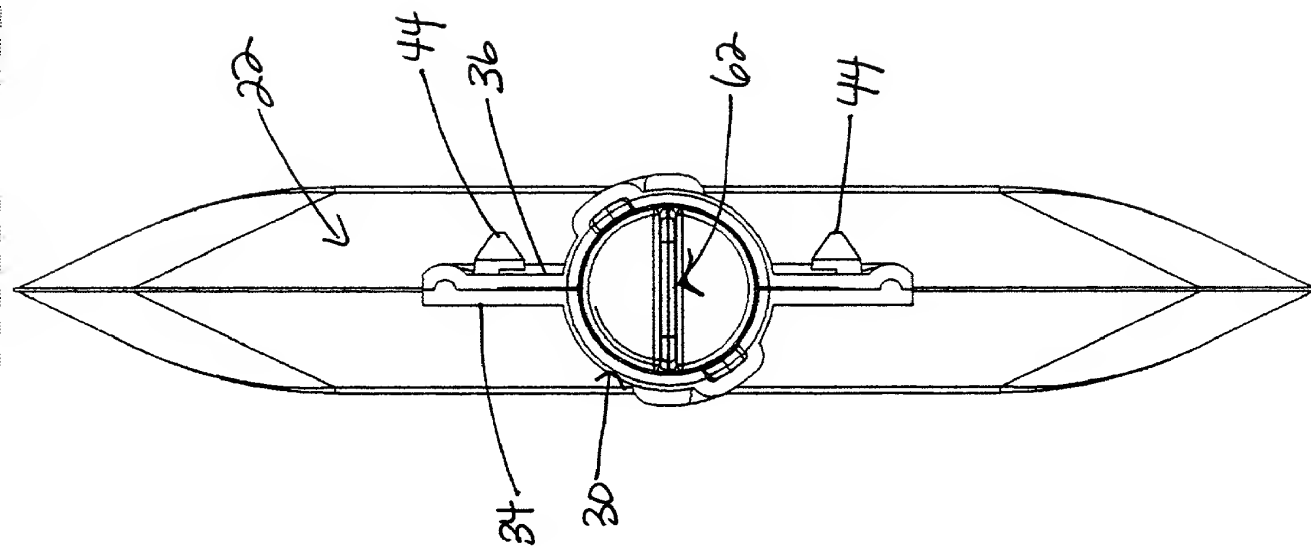


Fig. 15



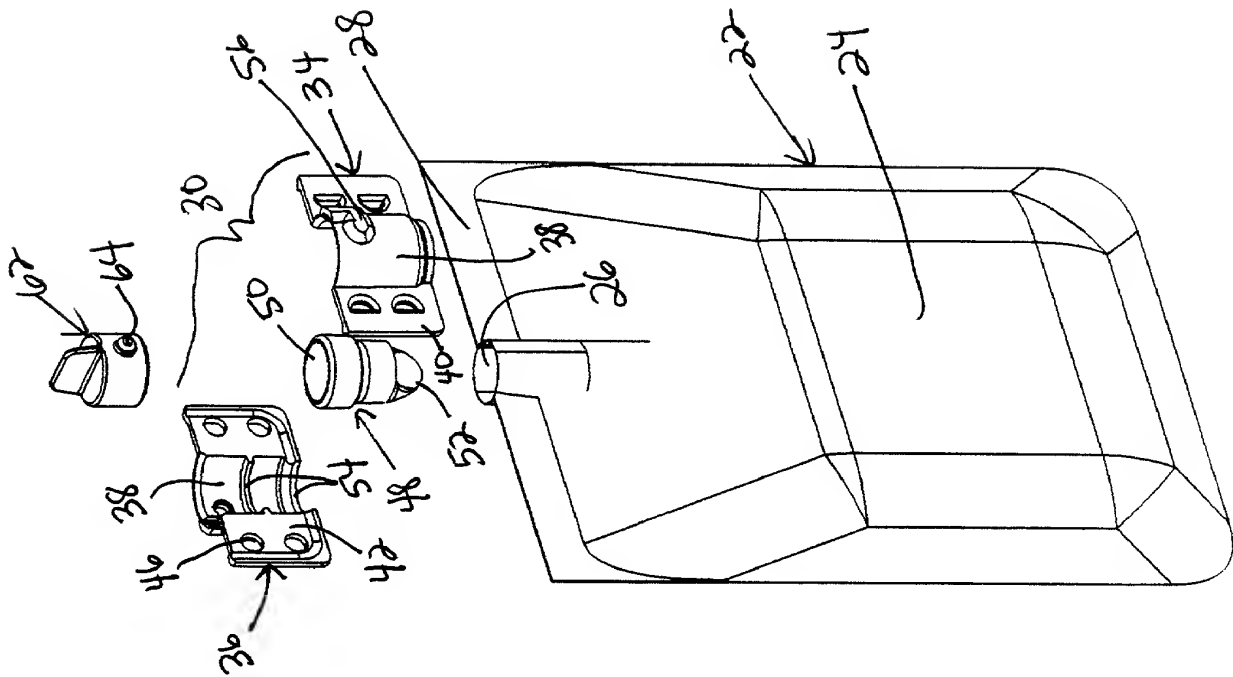
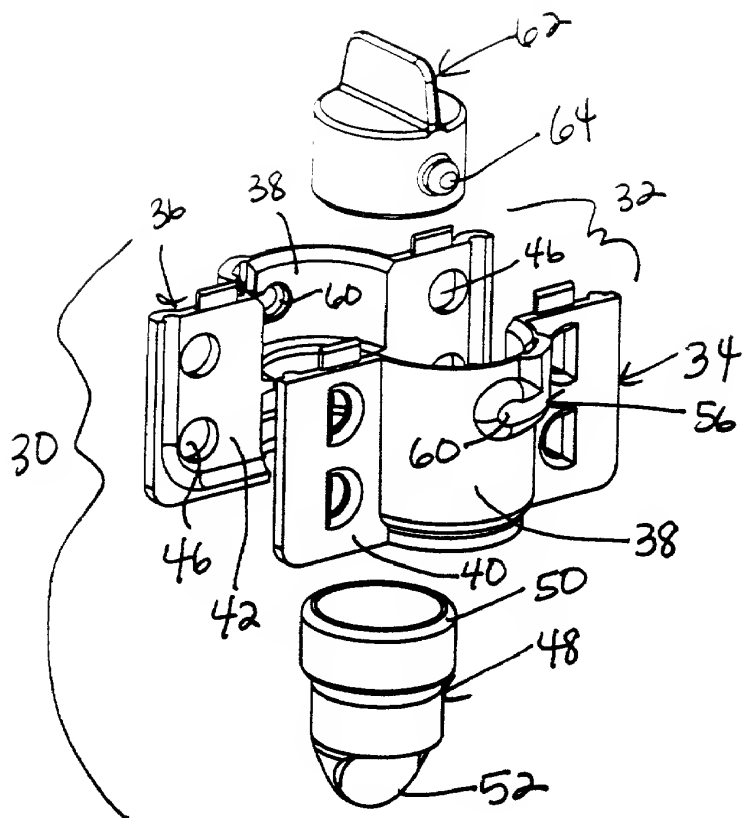
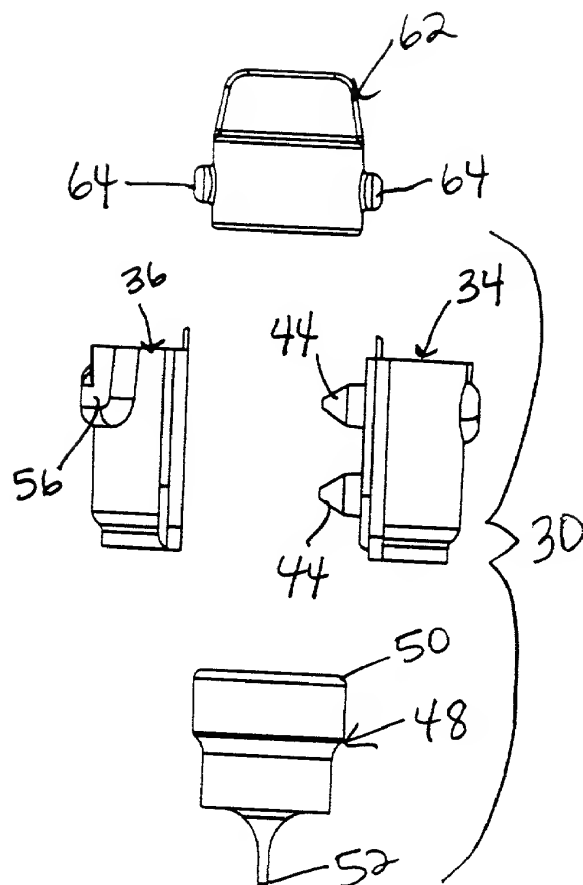


FIG. 17

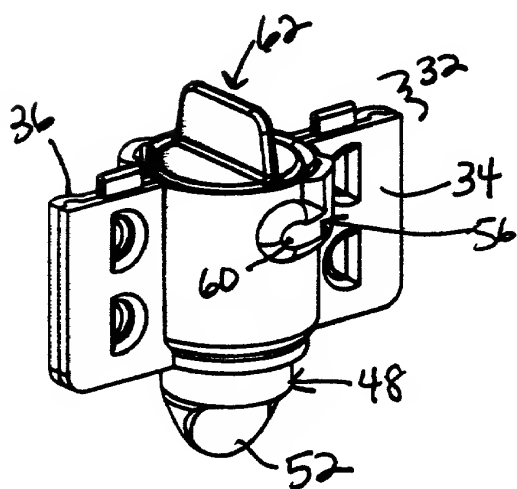




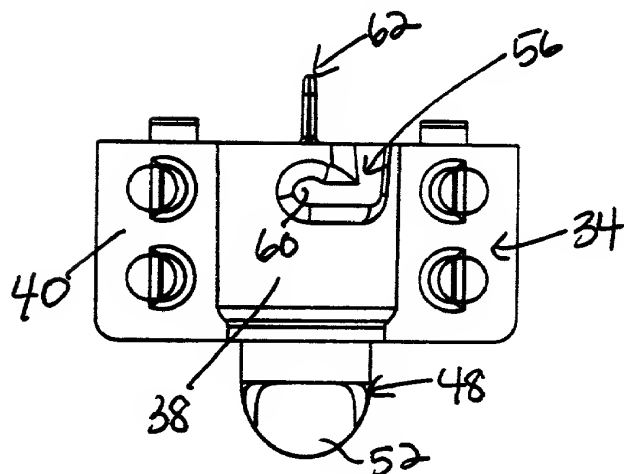
*Fig. 18*



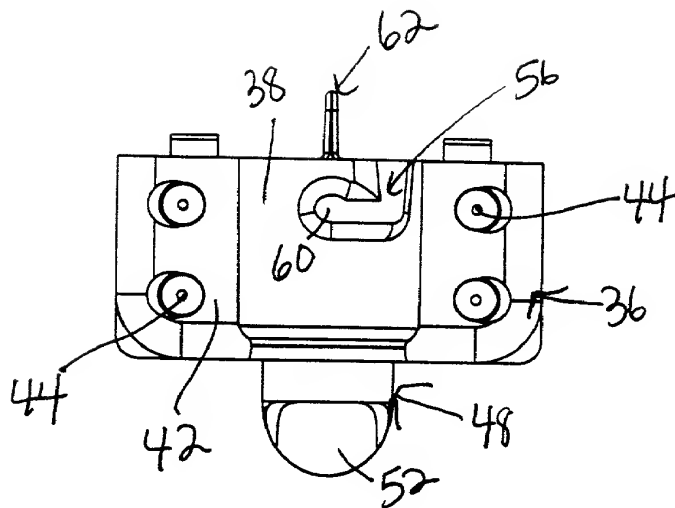
*Fig. 19*



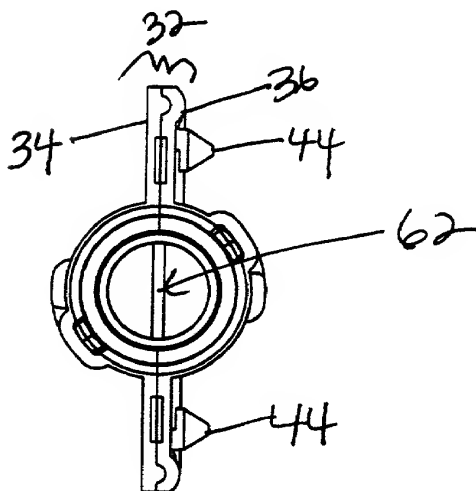
*Fig. 20*



*Fig. 21*

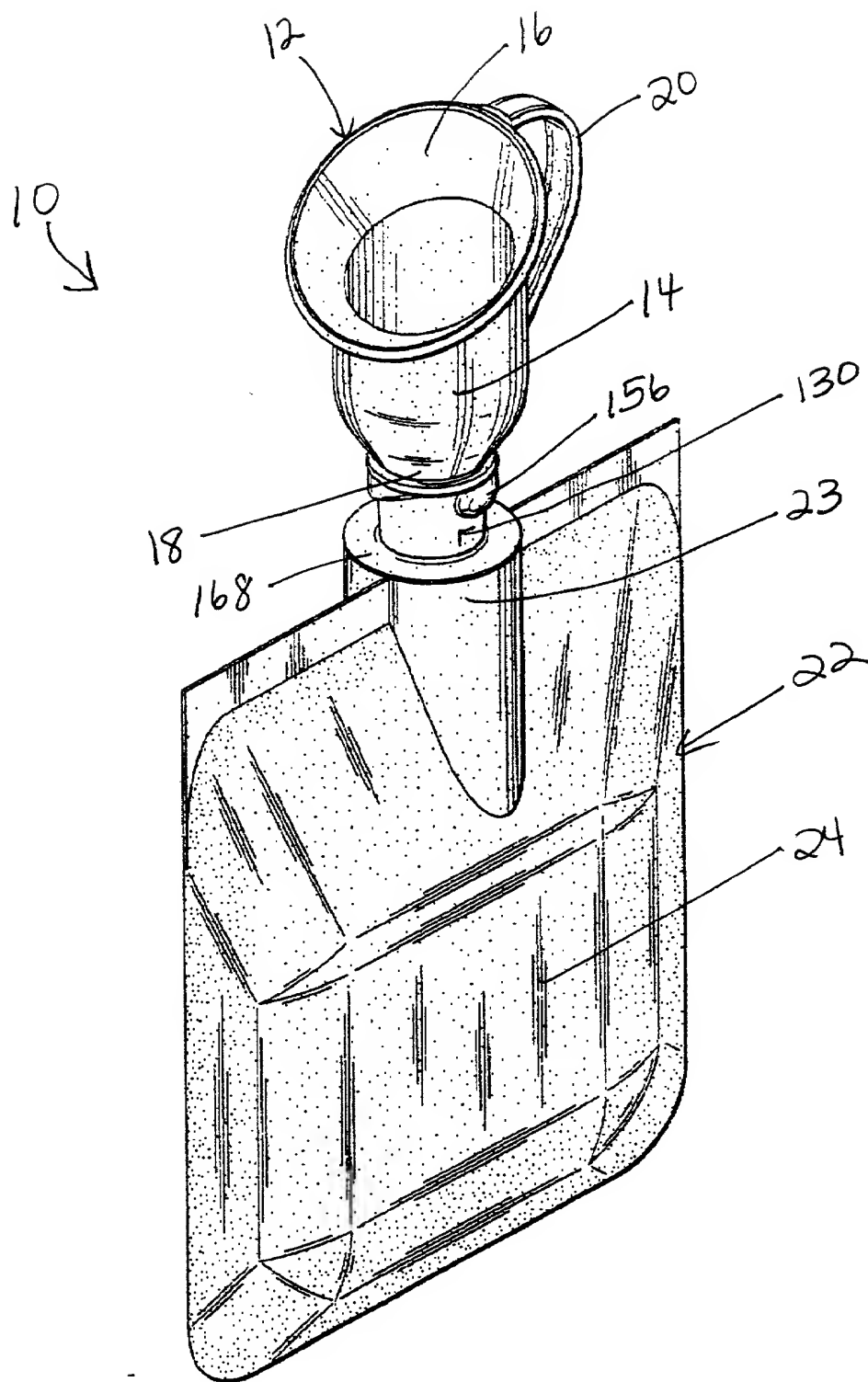


*Fig. 22*

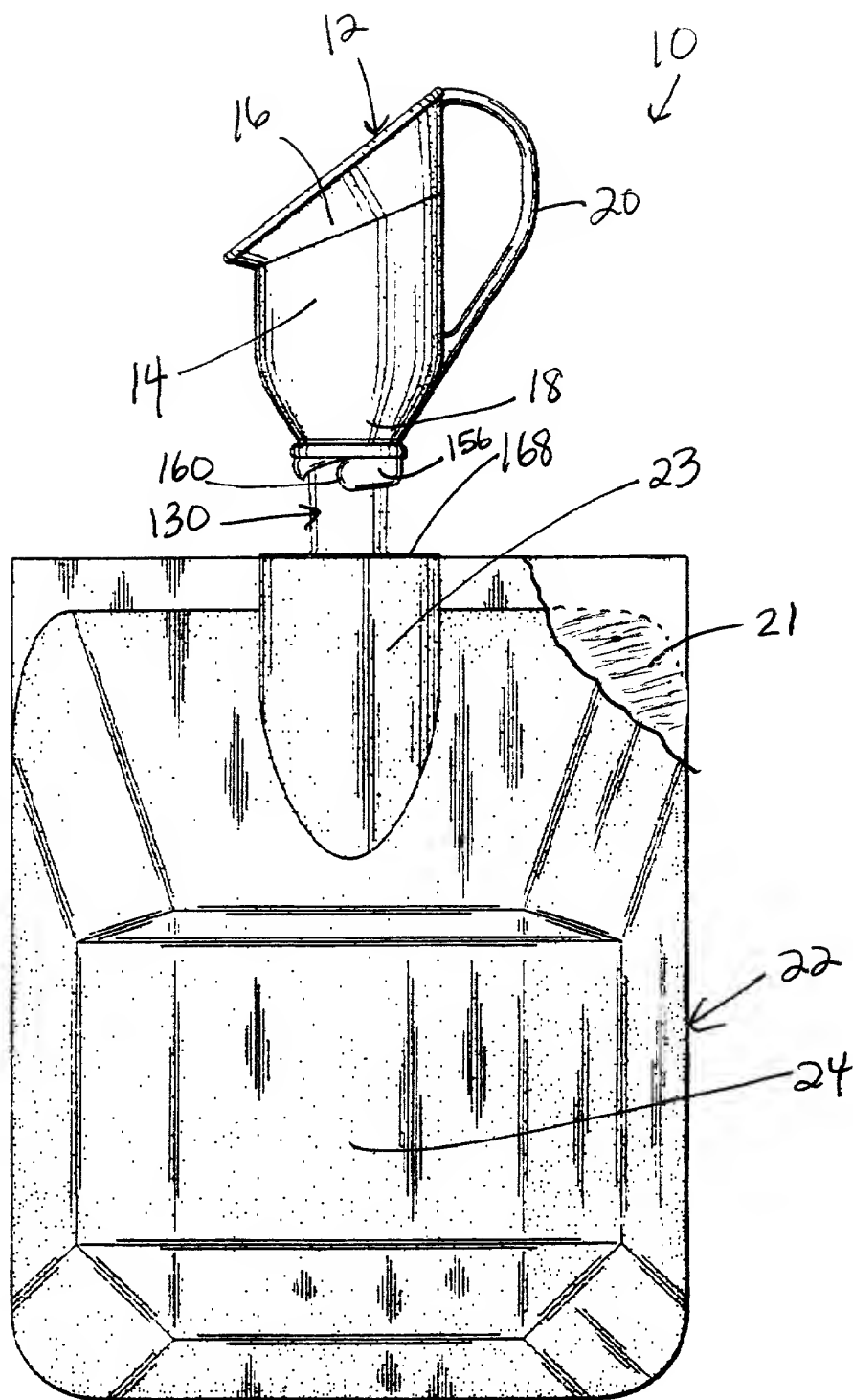


*Fig. 23*

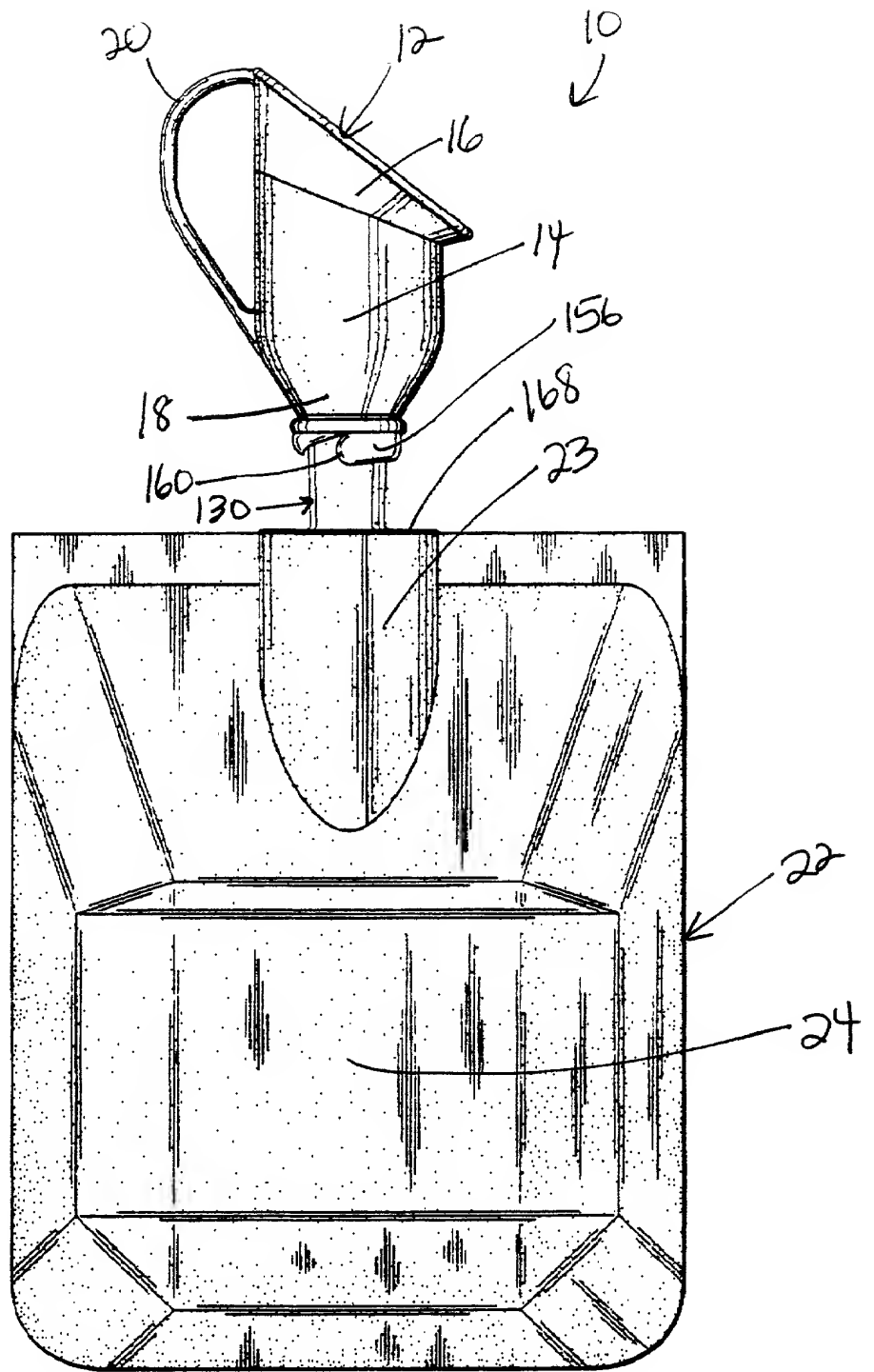




*Fig.* 25



*Fig. 26*



*Fig. 27*

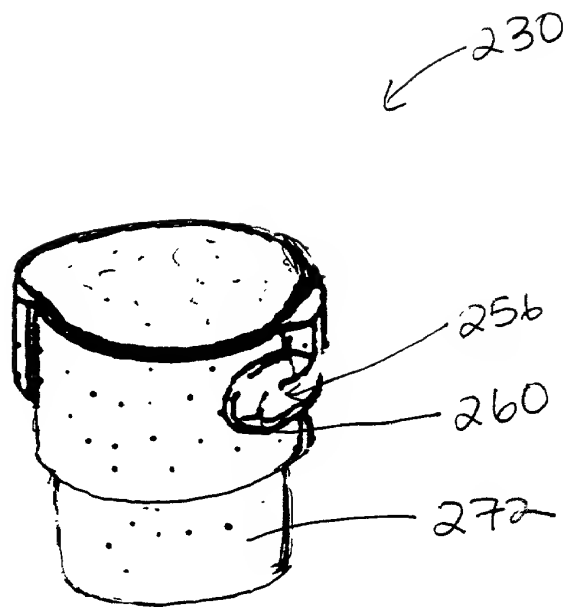
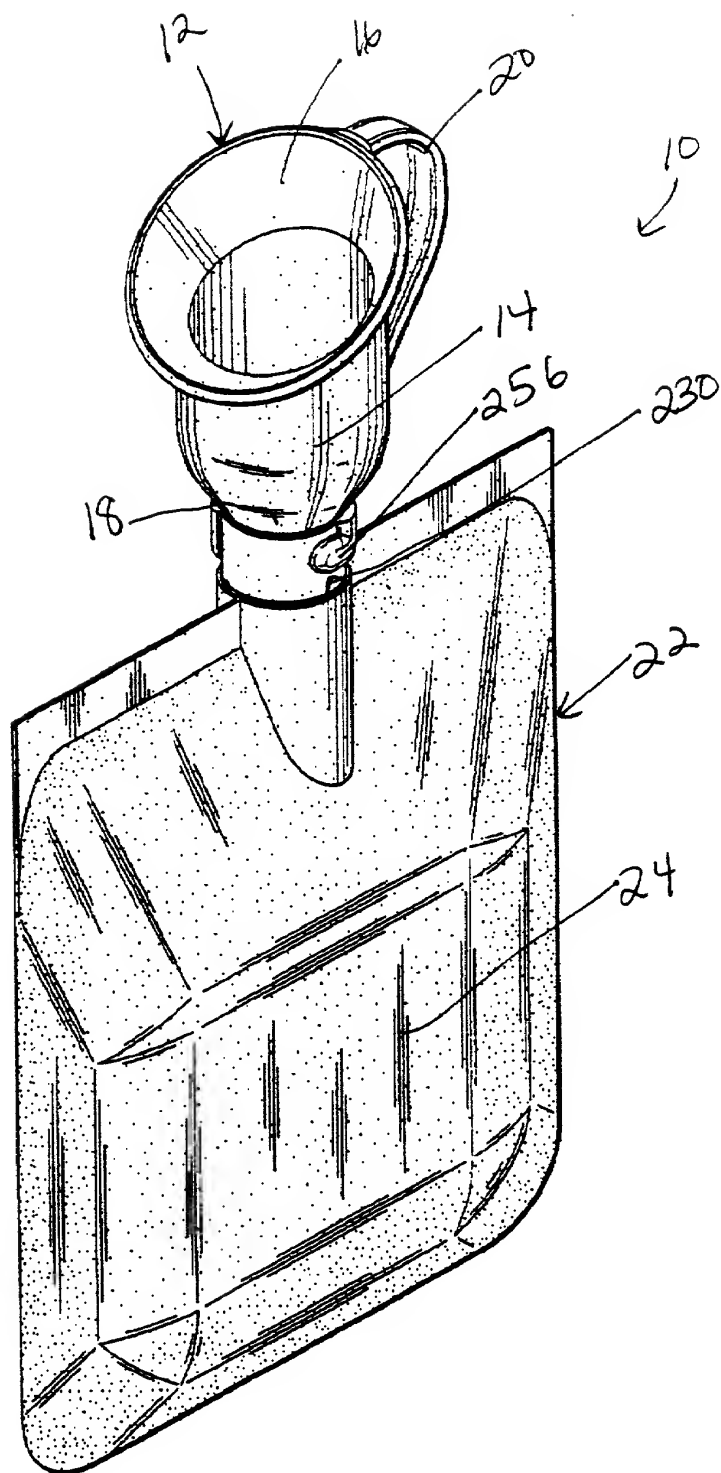


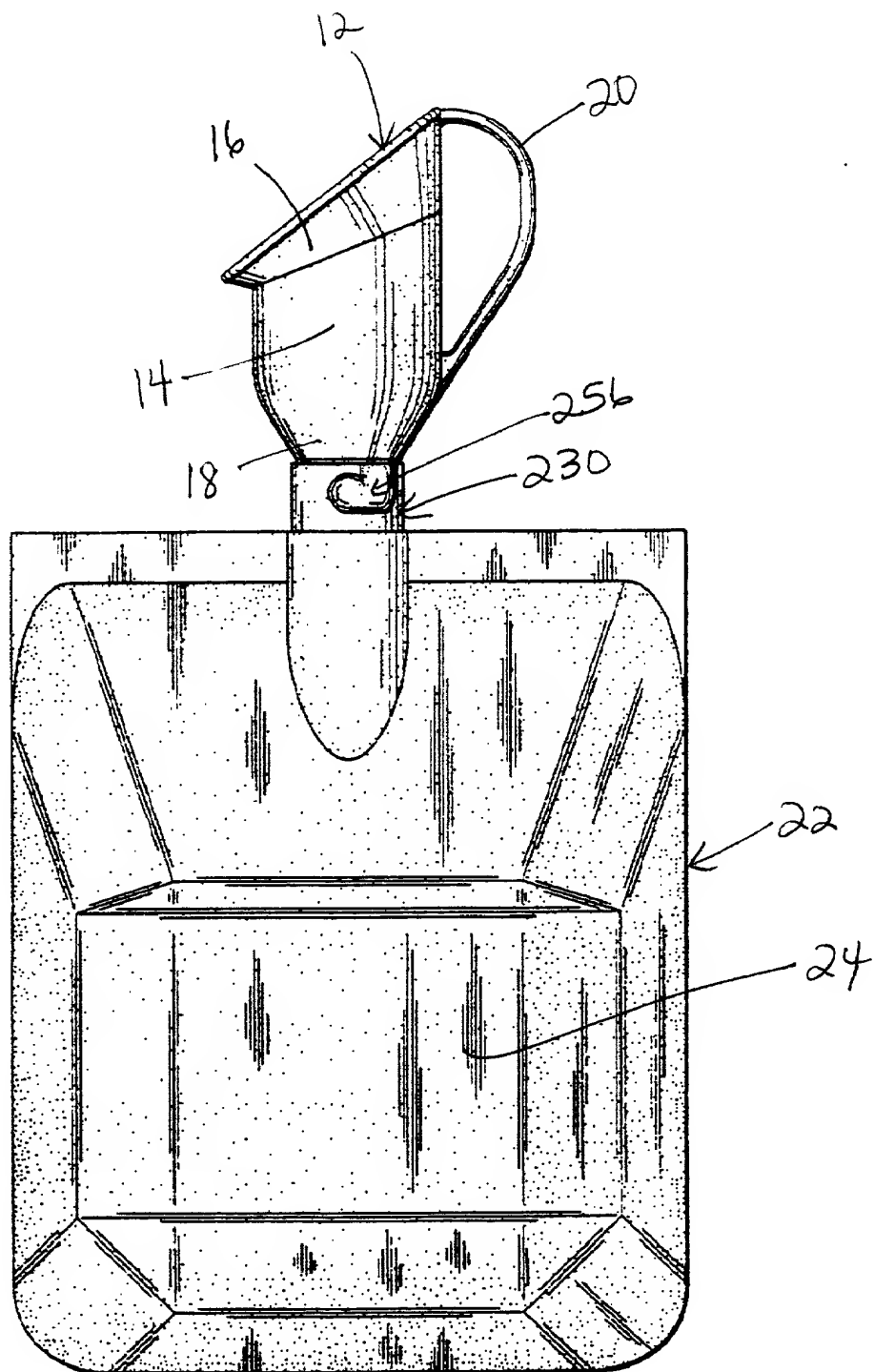
FIG. 28

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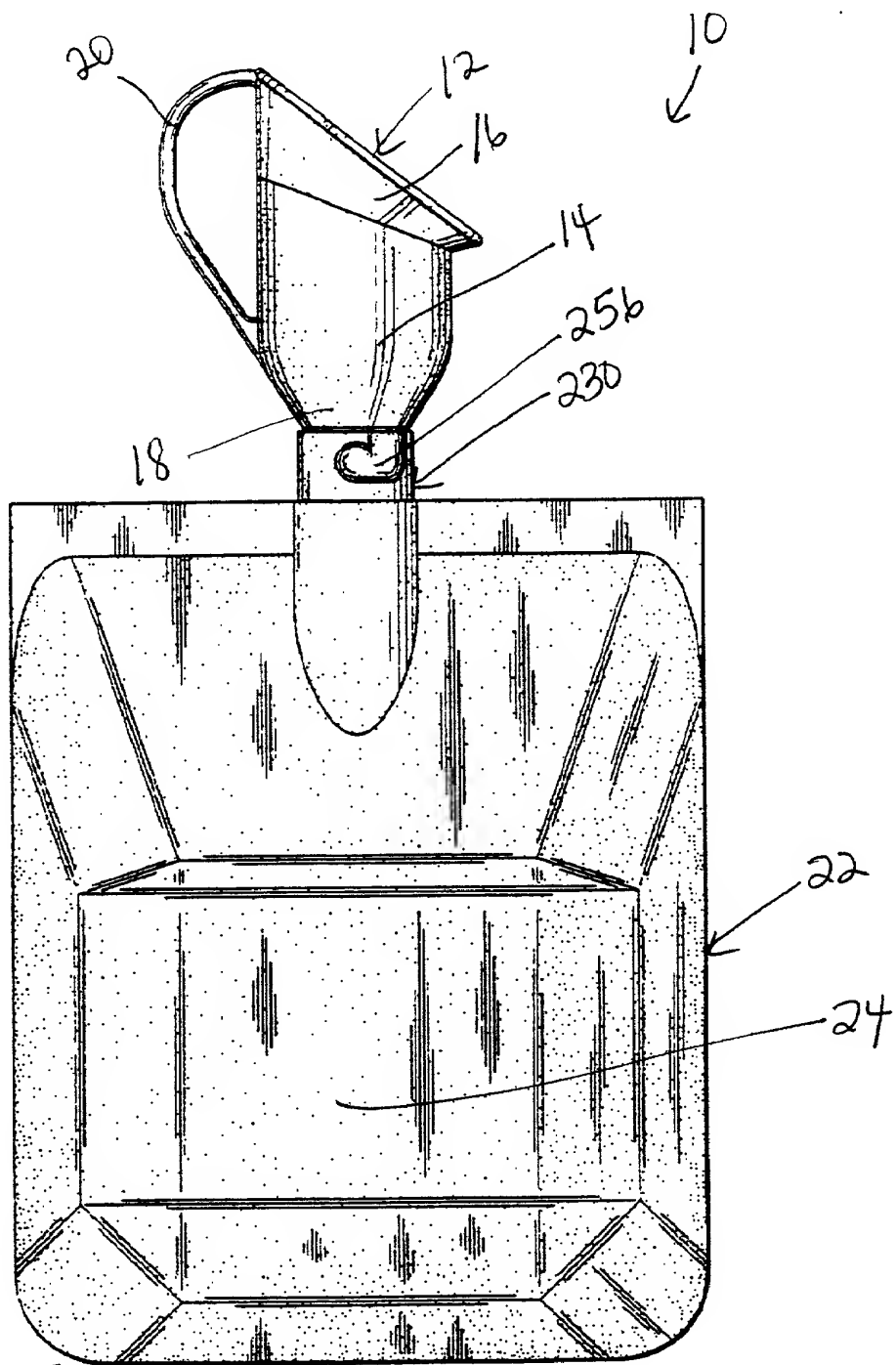
*Fig. 29*





*Fig.* 30

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*Fig. 31*

**DECLARATION FOR PATENT APPLICATION AND POWER OF ATTORNEY**

Atty. Docket No. RPC 0507 EUS  
 First Named Inventor Houston Rehrig

As a below named inventor, I hereby declare that my residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

**PORTABLE URINAL,**

the specification of which:

☒ is attached hereto; or  
☐ was filed on (MM/DD/YYYY) \_\_\_\_\_ as U.S. Application Number or PCT International Application Number \_\_\_\_\_, and was amended on (MM/DD/YYYY) \_\_\_\_\_ (if applicable).

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, § 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, § 119(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate, or § 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below, and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or of any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application Number(s)	Country	Foreign Priority Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached? (Yes/No)

I hereby claim the benefit under Title 35, United States Code, § 119(e) of any United States provisional application(s) listed below.

Application Number(s)	Filing Date (MM/DD/YYYY)

I hereby claim the benefit under Title 35, United States Code, § 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code § 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, § 1.56 which occurred between the filing date of the prior application and the national or PCT international filing date of this application.

Application Number(s)	Filing Date (MM/DD/YYYY)	Status: Patented, Pending, Abandoned

**Declaration for Patent Application (cont'd.)**Atty. Docket No. RPC 0507 PUS

I hereby appoint the following registered practitioners to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

Eric L. Brooks, Reg. No. 26,201; James A. Kushman, Reg. No. 25,634; David R. Syrowik, Reg. No. 27,956; Mark A. Cantor, Reg. No. 30,614; Ralph M. Burton, Reg. No. 17,748; Robert C.J. Tuttle, Reg. No. 27,962; Earl J. LaFontaine, Reg. No. 30,766; Ronald M. Nabozny, Reg. No. 28,648; Thomas A. Lowry, Reg. No. 30,770; John E. Nemazi, Reg. No. 30,876; Kevin J. Heint, Reg. No. 29,805; William G. Abbat, Reg. No. 31,936; Donald J. Harrington, Reg. No. 17,427; Timothy G. Newman, Reg. No. 34,228; Frederick M. Ritchie, Reg. No. 18,669; Robert C. Brandenburg, Reg. No. 20,048; A. Frank Duke, Reg. No. 20,937; John M. Holan, Reg. No. 35,534; Jeffrey M. Szuma, Reg. No. 35,700; James R. Ignatowski, Reg. No. 26,741; Frank A. Angileri, Reg. No. 36,733; William G. Conger, Reg. No. 31,209; Sangeeta G. Shah, Reg. No. 38,614; Christopher W. Quinn, Reg. No. 38,274; Robert C. Jones, Reg. No. 35,209; David S. Hir, Reg. No. 38,383; Konstantine J. Diamond, Reg. No. 39,657; James N. Kallis, Reg. No. 41,102; Hugo A. Delavie, Reg. No. 32,688; Ralph E. Smith, Reg. No. 35,474; Michael S. Brudhino, Reg. No. 38,392; Jeremy J. Curcuri, Reg. No. 42,454; Mark D. Chuey, Reg. No. 42,415; John J. Ignatowski, Reg. No. 36,555; Pete N. Kikasis, Reg. No. 41,117; Stephanie M. Mansfield, Reg. No. 43,773; Mark E. Stuenkel, Reg. No. 44,364; Matthew R. Mowers, Reg. No. 44,056; Raymond J. Vivacqua, Reg. No. 45,369; Lawrence G. Almeda, Reg. No. 46,151; Gina Kukaina, Reg. No. 46,082; Seth E. Rodack, Reg. No. 45,622; James W. Proscio, Reg. No. 47,010.

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I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

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Inventor's signature Houston Rehrig Date Sept 25, 2000

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Inventor's signature \_\_\_\_\_ Date \_\_\_\_\_

Post Office Address \_\_\_\_\_

Residence \_\_\_\_\_ Citizenship \_\_\_\_\_

Full Name of Third Joint Inventor \_\_\_\_\_

Inventor's signature \_\_\_\_\_ Date \_\_\_\_\_

Post Office Address \_\_\_\_\_

Residence \_\_\_\_\_ Citizenship \_\_\_\_\_

Full Name of Fourth Joint Inventor \_\_\_\_\_

Inventor's signature \_\_\_\_\_ Date \_\_\_\_\_

Post Office Address \_\_\_\_\_

Residence \_\_\_\_\_ Citizenship \_\_\_\_\_